# POINT RUSTON

5219 N. SHIRLEY ST. SUITE 100 RUSTON, WA 98407

January 15, 2013

Mr. Kevin L. Rochlin Remedial Project Manager U.S. Environmental Protection Agency Region 10 1200 Sixth Avenue, ECL-111 Seattle, WA 98101 RECEIVED

JAN 1 6 2013

OFFICE OF ENVIRONMENTAL CLEANUP

RE:

Monthly Report: No. 199, December 2012

Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. The report is organized to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen

Manager of Legal Affairs

Attachment (2 copies)

cc:

Steve Teel - Washington Department of Ecology

Evan Griffiths - CH2MHill (2 copies)

Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF 1442946

# A. Actions taken to achieve compliance with the Consent Decree during the previous month.

- 1. Point Ruston personnel and its contractors hosted numerous meetings and conversations with EPA over the month of December, along with many electronic communications related to varying aspects of the project. Work continued on many various RA tasks, including work associated with the following projects:
  - ➢ Phase 1 CMP
  - ➤ Waterwalk CMP
  - > Temporary Cap & Storm Water Management Plan
  - > Sequence of Development Plan & Occupancy Plan
  - > Occupancy Air Monitoring Plan
  - > Long Term OMMP
  - > CC&Rs
  - > Metro Parks Peninsula Park CMP
  - DNR Sediment Cap RD
- 2. Point Ruston continued to conduct Air Monitoring per the approved plan under the CH&SP, and has also submitted a new air monitoring plan related to occupancy of the site. Point Ruston is in the process of installing the additional hi-vols and purchasing the additional real-time monitors.
- 3. Point Ruston and its contractors continued construction of the improvements associated with Phase 1 CMP. Point Ruston is working on a final Phase 1 RA Construction Report and has submitted a Phase 1 Occupancy plan, which includes a specific Contingency Plan for residential occupants.
- 4. Point Ruston has submitted a plan for opening the Waterwalk to public access and use, which includes a Contingency Plan for such public access and use. We continue to work on the Waterwalk RA Construction Report, which will be submitted to EPA in January.
- 5. Point Ruston continued to perform all site maintenance and monitoring, including all requirements under the Site Wide Construction Health and Safety Plan.
- 6. Point Ruston continued weekly site-inspection reports (see attached).
- 7. Point Ruston maintained clean work areas and roads, including fencing and CRZ connections between site units.

- 8. Point Ruston conducted training activities for site visitors and workers, including the following:
  - > Site Safety Orientations (Clean Zone) were held for:
    - i. Four hundred ten (410) site visitors and personnel of various companies
  - ➤ HAZWOPER Basic training was verified or completed by personnel of the following companies:
    - i. One (1) Point Ruston employee
  - ➤ HAZWOPER annual retraining was verified or completed by personnel of the following companies:
    - i. One (1) J.W. Morrissette & Assoc. employee
    - ii. One (1) Point Ruston employee
    - iii. Five (5) NW Linings employees
  - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
    - i. One (1) Hydrometrics employee

# B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Stormwater Outfall sampling, data and related activities include the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collected by Point Ruston from the outfall locations on December 10<sup>th</sup>, 17<sup>th</sup>, 24<sup>th</sup> and 31<sup>st</sup>. Results from samples collected are attached. There were no exceedances.

2. OCF leachate sampling, data, disposal and related activities include the following:

Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. The OCF OMMP requires inspections to correspond with monthly, quarterly, or semi-annual reporting intervals as specified by the Response Action Plan. However, Point Ruston inspects LCRS and LDCRS volumes daily. LCRS volumes currently average approximately 95 gallons per day. Point Ruston currently ships 4,700-5,000 gallons approximately every 50 days. Leachate disposal was not required in December.

3. Air Monitoring, sampling, data and related activities include the following:

Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston does not conduct perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring resumes when the weather allows the site to dry out. Results for samples collected November 26<sup>th</sup> through December 28<sup>th</sup> are attached. There were no exceedances.

Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1) (a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in December.

4. Methane gas monitoring sampling, data and related activities include the following:

Point Ruston performs subsurface methane gas monitoring pursuant to the EPA approved "Building 2B Sampling & Analysis Plan – Subsurface Gas Monitoring Activities" plan. In 2009 a passive gas extraction system was installed in conjunction with the 2B-West building foundation. Four (4) vent pipes were roughed-in through the floor slab. In 2011 Point Ruston installed four (4) gas monitoring wells within the future boundaries of the 2B-East foundation and began monitoring for methane at all eight (8) locations (4 passive vent pipes; 4 wells). Sampling at these locations has been ongoing, pursuant to ASTM E2600. On October 9, 2012 the four (4) gas monitoring wells within the boundaries of the 2B-East building foundation were plugged and abandoned. Methane monitoring for the month of December was conducted at the remaining four (4) locations of the passive gas extraction system under the 2B-West building foundation. The Gas Monitoring Data Log

and field worksheet for the month of December are attached. No methane has been detected to date. Methane monitoring of the passive extraction system will continue.

5. Miscellaneous soil sampling, data and related activities include the following:

Point Ruston performs miscellaneous on-site soil sampling related to its various ongoing RA work and development. Analysis results are attached.

Soil sampling was conducted on December 3<sup>rd</sup> common borrow material imported by barge.

Soil sampling was conducted on December 4<sup>th</sup> from common borrow material imported by barge.

Soil sampling was conducted on December 6<sup>th</sup> crushed gravel material imported by truck and trailer.

Soil sampling was conducted on December 19<sup>th</sup> crushed gravel material imported by truck and trailer.

# C. Work Plans and other deliverables completed and submitted during the previous month.

1. Plans and Documents included the following:

### Temporary Cap Plan & Site-Wide Storm Water Plan

EPA approved the conceptual temporary cap plan and storm water plan, including plans and specifications, and approved the installation of the system on the south end of the site. A formal Temporary Cap and Site-Wide Storm Water Plan is being updated, reflecting this approved concept, which will be resubmitted as soon as possible.

### Construction Health & Safety Plan v.6 (CH&SP)

This plan was submitted to EPA, and comments have been received. Point Ruston is drafting responses and anticipates finalizing responses soon. This will be finalized after the approval of occupancy documents.

#### Waterwalk CMP

This plan was approved by EPA. Point Ruston is responding to final comments from the City of Tacoma A plan for opening the Waterwalk to public access and use is drafted, which includes a Contingency Plan for such

public access and use. The Waterwalk Access and Use Plan was submitted on December 6, 2013. The RA work along the Waterwalk is complete and Point Ruston is finalizing some of the last aspects of the public amenities, working on the Waterwalk RA Construction Report, and plans to open the Stage 1 area as soon as possible. Stage 2 access and use is tentatively scheduled to coordinate with the opening of the Copperline project being built under the Phase 1 CMP.

### Phase 1 Construction Management Plan (CMP)

Point Ruston submitted minor updates to the Phase 1 CMP to EPA on 12/19/12. Point Ruston is working on a Phase I RA Construction Report and the Phase I Occupancy Plan has been submitted, which includes a specific Contingency Plan for residential occupants. Final hardscape site work is schedule to be completed in January, and Point Ruston is working towards first occupancy in February.

### **Master Infrastructure CMP (MICMP)**

Construction of the MICMP is substantially complete, with minor punch list items being completed. Point Ruston will be submitting a design addendum related to the abandonment of the tunnel Point Ruston will submit a final construction report to EPA in January for its review and final inspection related to Certification of Completion for this phase of work, which include a final opportunity to review final as-builts. EPA also updated its paperwork, granting a formal, written approval of the Health & Safety Plan for occupancy on 12/18/12.

#### Ruston Way CH&SP Plan

Completed and submitted to EPA for Ruston Way opening. Approved, and roadway opened in June 29<sup>th</sup>. EPA granted formal, written approval of the plan on 12/18/12.

#### Sequence of Development and Occupancy Plan (SDOP)

The SDOP submitted to EPA, to include a new Contingency Actions section, per EPA request. The plan includes an updated occupancy air monitoring plan

### **Operations Maintenance and Monitoring Plan (OMMP)**

The OMMP was submitted to EPA on 09/04/2012. Point Ruston is awaiting final approval. Point Ruston did enter into a final cost sharing agreement with the City of Tacoma regarding the extra-ordinary costs associated with O&M of the public components associated with the MICMP.

### CC&Rs

The environmental CC&Rs were submitted to EPA on 09/04/2012. Point Ruston is awaiting final approval.

# Biological Assessment South Outfall Construction (Edwards Street)/ BA South Outfall Flow (Edwards Street)

The BA was completed and approved, and the outfall was successfully constructed.

#### **BA Shoreline Stabilization RA**

Post-inspection completion report has been drafted and will be submitted to EPA following final armoring conducted as part of the Peninsula Park CMP.

### **Sediment Capping RD**

Point Ruston submitted updates to the plans and specifications to reflect new terms of DNR agreements on 12/19 and EPA approved this RD on 12/19 upon issuance of its Water Quality Certification. Point Ruston and EPA finalized the plans and specs and this project is scheduled to be implemented during the current fish window. Notice sent to USCG on 12/19, and construction is set to being on January 2, 2013. A pre-construction meeting including EPA, Point Ruston's contractor Pacific Pile & Marine, the IQAT team from Anchor QEA, and the design engineers from Hydrometrics was held on 12/27/2012.

#### Peninsula Park CMP

Peninsula Park CMP was submitted to EPA on 09/04/12. Pre-construction work will begin in anticipation of final Peninsula Park CMP approval, with preliminary grading and SAP of import materials being conducted first. EPA submitted comments to Point Ruston on 10/9/2012, and Point Ruston responded to EPA on 10/10/2012. Point Ruston held a preconstruction meeting on 10/11/2012. EPA submitted additional comments to Point Ruston on 12/04/2012. Point Ruston will resubmit revised CMP addressing EPA comments; however RA work has been delayed by the wet weather.

2. Remedial Action included the following tasks:

#### **OCF** construction activities:

Maintained leachate collection system; Inspected storm drain system, vaults and cover; Maintained the temporary storage area, related to site-wide grading and Temporary Cap construction. Point Ruston agreed with the Town of Ruston to move the materials and equipment away from the frontage of The Commencement apartment building. Material and equipment relocating has begun and will continue as weather and resources allow.

#### **Stack Hill construction activities:**

Maintain lot grading and final cover in clean, final RA form. A damaged street light pole was replaced on Tract A.

#### Phase 1 CMP

Continued RA construction of utility connections and final roadway subgrade for permanent cap subgrade, including along view corridors and Main Street. Completed footing construction of 2B-East foundation and commenced plumbing groundwork.

#### Waterwalk CMP

Complete work and open Stage 1 for public access and use. Work is ongoing, including construction of the lateral spreader storm water system, and completion of the liner, marker layer and cover soils along the extent of the project. Topsoil placement and irrigation system installation, and final landscape installation is nearing completion. Final prep for public amenities foundations is on-going, as is installation of the buffer and perimeter fencing. Final RA is complete. Establishment of rock monuments and install tile mosaic hardscapes continues, and BMPs and CH&SP zones are continuously monitored and maintained.

# **Temporary Impervious Cap and Construction Stormwater Management Plan**

Implement the cap in conjunction with the opening and use plan for the Waterwalk, and work westward across the site to implement the temporary cap. Temporary Impervious Cap (TIC) areas F, I and partial area H were completed in December.

#### Site-wide remediation/redevelopment activities:

- > Continued surface water controls
- Maintained onsite haul roads and stockpiles
- Maintained erosion and surface water controls; Inspected and repaired silt fence and exclusion zone fencing.

- Continued site-wide dust monitoring and control through site and access road watering, as needed.
- Maintained air-monitoring program per CH&SP requirements
- > Continued to maintain Ruston Way Construction Health and Safety protocols, including air monitoring, dust suppression, buffer zone maintenance, fencing and signage.

### D. Actions scheduled for the next six weeks.

- 1. Point Ruston to maintain the Ruston Way Health and Safety protocols, including applying tacifier to all buffer areas with exposed soils, and continuing to monitor for dust.
- 2. Point Ruston to continue construction of Waterwalk CMP improvements and work to open the First Stage to public occupancy as a test of the site wide SDOP and Institutional Controls.
- 3. Point Ruston and EPA finalizing RD approvals for the following plans and documents:
  - > Peninsula Park CMP
  - > Sediment Cap Remedial Design
  - > OMMP
  - > SDOP
  - > Temporary Cap Plan and SWP
  - > Institutional Controls/CC&Rs
  - > Phase 1 CMP (updated)
  - > CH&SP v.6
- 4. Continue construction of Temporary Cap and Site Wide Storm System, including construction of swales and anchor trenches, as well as layout of interim stormwater system, temporary liner(s) and cover system. Ordering of all materials will be finalized and with cooperating weather the TIC will be installed
- Continue CH&SP air monitoring during RA activities also TSP sampling and analysis and correlating the data for eventual data-ram analysis during occupancy.
- 6. Continue to implement terms of the settlement with Metro Parks Tacoma and the State of Washington regarding the off-site remedial action required under the Consent Decree.

The following Remedial Action tasks are planned to continue:

### **RA Monitoring:**

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

#### **OCF OMMP activities:**

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

#### Stack Hill construction activities:

- a. Erosion controls and site maintenance, and maintain roads and landscaping, including mowing, and keep and maintain the landscaping.
- b. Continue sales & marketing efforts for custom home construction

#### Site-wide construction activities:

- a. Maintain roads and stockpiles onsite
- b. Maintain erosion controls
- c. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.
- d. Maintain erosion control BMPs and CH&SP standards

#### Phase 1 CMP

- a. Continue vertical construction
- b. Continue utility construction
- c. Continue roadway construction
- d. Continue final cap RA construction
- e. Maintain erosion control BMPs and CH&SP standards

#### Waterwalk CMP

- a. Continue construction of Waterwalk improvements, finalizing First Stage for public access and use and prepping for next stage to open for public access and use.
- Maintain erosion control BMPs and CH&SP standards.

# **Temporary Impervious Cap and Construction Stormwater Management Plan**

- a. Continue final mass grading
- b. Stormwater construction
- c. Installation of temporary cap materials, including liner(s) and gravel or sandbag cover system

# E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

Final approval of TIC/SW plans and completion of approved SDOP and completion of EPA negotiations on RA schedule modifications and associated matters.

## F. Modifications to work plans or schedules proposed to or approved by EPA.

- 1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
- 2. Point Ruston and EPA agreed to begin final negotiations of a Consent Decree amendment to include updates to the SOW Schedule, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site. Discussions are on-going.

# G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

- 1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
- 2. Point Ruston continues negotiations, design and conclusion of the sale of Waterwalk property and finalizing of the LID assessment roles with the City of Tacoma.
- 3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site..

# WEEKLY

# **SITE**

# **INSPECTION**

# **REPORTS**

Reference	Date	Description
GEN2012-1202	12/02 - 12/08	General Site Weekly Inspection Report
SH2012-1202	12/02 - 12/08	Stack Hill Weekly Inspection Report
STR2012-1202	12/02 - 12/08	Streets Weekly Inspection Report
TIC2012-1202	12/02 - 12/08	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1202	12/02 - 12/08	Waterwalk Weekly Inspection Report
GEN2012-1209	12/09 – 12/15	General Site Weekly Inspection Report
SH2012-1209	12/09 – 12/15	Stack Hill Weekly Inspection Report
STR2012-1209	12/09 - 12/15	Streets Weekly Inspection Report
TIC2012-1209	12/09 – 12/15	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1209	12/09 – 12/15	Waterwalk Weekly Inspection Report
GEN2012-1216	12/16 – 12/22	General Site Weekly Inspection Report
SH2012-1216	12/16 – 12/22	Stack Hill Weekly Inspection Report
STR2012-1216	12/16 – 12/22	Streets Weekly Inspection Report
TIC2012-1216	12/16 – 12/22	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1216	12/16 – 12/22	Waterwalk Weekly Inspection Report
GEN2012-1223	12/23 – 12/29	General Site Weekly Inspection Report
SH2012-1223	12/23 – 12/29	Stack Hill Weekly Inspection Report
STR2012-1223	12/23 – 12/29	Streets Weekly Inspection Report
TIC2012-1223	12/23 – 12/29	Temporary Impermeable Cap Weekly Inspection Report
WW2012-1223	12/23 – 12/29	Waterwalk Weekly Inspection Report



# **GENERAL SITE**

Weekly Site Inspection Report No. GEN 2012-1202

Week of: 12/2 - 12/8, 2012 Inspector: Tim ReasHER

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston) NEED INSPECTION OVERAL **COMMENTS/OBSERVATIONS CONDITION** REPAIR? **AREA** (See "Streets" Report for additional gates) Gates: (G) F P Y Slag Peninsula 52<sup>nd</sup> Street (G) F P Y (N)54<sup>th</sup> Street (electric) F P Signage: **G** P Gates **(G**) P Y Perimeter F (N)F P Safety  $(\mathbf{G})$ **Security:** Locks  $\mathbf{G}$ P Y (N)P Y F (N) Alarms F P (N) Cameras BMPs: (G) (Ŋ) Silt Fence Y F P Waddles  $\mathbb{G}$ F P Nursery: GP F **Plants**  $\overline{\mathcal{M}}$ Y Sprinkler GF P Weeds (G)F P Stockpiles:  $(\mathbf{G})$ F P (N) Envirotac II **Plastic**  $\widetilde{\mathbf{G}}$ F P (N) Packed  $\widetilde{\mathbf{G}}$ F P Y (N) Grass F P **Dust:** Traffic areas  $\langle G \rangle$ P (N Excavation area  $(\mathbf{G})$ F P Y N Fencing: (G)P Y (N)Site Perimeter F ON GOING MAINTENANCE Zone Separation  $(\tilde{\mathbf{G}})$ F P CRZs: (G P F Y Area D (Other) (G) P F Haul Roads: **(G)** P N) Main Street P Grand Ave. F Y (G)OCF road P F (G) Metr.Pks-Peninsula F P  $(\mathbf{G})$ 

# GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1202 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc.	. note	s:			
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ir Mo			Domonal	Dominista	
Day of		Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
Sun	2	<u>(/)</u>	(2)	Ø	NO KA ACTIVITY
Mon	3	3	Ø	$\emptyset$	OFFLOAD BARGE 53/WATERLINETORW. W. /STURM DAMNS
Tue	4	3	0	Ø	DEFLOND BARGE #54 WATERWALK PREDELINER STORM DRAINS
Wed	5	3	0	$\mathscr{D}$	HAMLROAD MANT GALDING / EXCAVATING (CLEWUD MMZ (MORTH)
Thu	6	3	0	ĺ	GRAND PLAZA WATERWALL / 2BE GRANNG) STORN DRAINS
Fri	7	3	0	1	11 / STORMDRAIN ASPHALT PRETE.
Sat	8	$\mathcal{D}$	0	$\mathcal{O}$	NO RA ACTIVITY
VEAT	HER				
Day of	Week	(LOW/H	HGH)		Summary of Weather Conditions
Sun	2	42°/4	<u>8</u> ;55	W	WIND TMPH / (JUST 20MPH, HELLP. 18.25" (SCATTERED)
Mon	3	43/	19:5 <u>5</u>	W	WIND AMPHIGUST 21 MPH, PRECIP. 1053" (SCATTERED)
Tue	4	44°/5	52°; 55	w	WIND 7MPH/GUST 2IMPH, PRECIP. W. 64" (SCATTERED)
Wed	5	384	1";55	(NÉ	WIND LOMPHIGUST 19MPH, PRECIP. DUS (MORN & EVE)
Thu	6	40%	<u>13°; 59</u>	SU	WIND LEMPH/GUST 15MPH, PRECIP 0.2" (MORN-AFTERNO
Fri	7	40.4	B;su	s V	JIND TMPH/GUST 18 MPH, FRECIP. Ø. 15" (MORNING)
Sat	8	38:4	3;5U	U V	JIND SMPH/GUST 13MPH. NO PRECIPITATION
certify	y that	this re	port is	true, a	ccurate and complete, to the best of my knowledge and belief.
INSP	ЕСТО	OR: D	ATE:		12/10/2012 SIGNED: **
· <b> ·</b>		<b>.</b>			
H&S (	OFFIC	CER: I	DATE:		2/10/12 SIGNED: 1



# **STACK HILL**

Weekly Site Inspection Report No. SH 2012- | 2次分

Week of: 1212 - 1218, 2012 Inspector: Harry Shapel Operable Unit 02 - Asarco Tacoma Smelter Site (Point) Ruston)

		<b>ERA</b>			и .	
	CON	DITI			ED AIR?	COMMENTS/OBSERVATIONS
Ctusstas				TCDX.		<del></del>
Streets:	(G)	F	P	Y	N	
Court St.	G	F	P	Ŷ	(N)	
Commercial St.	167 h	F	P	Y	1	
Baltimore St.	/G/	F	P	Y	<del>  (3)</del>	
49 <sup>th</sup> St.	7G/	F	P	Y	XV	
Tract A (private)	167	F	P	Y	Z Z Z Z	
	(G)	F	- <u>-</u>	Y	N)	
	<del>/ 9  </del>	-		<u> </u>	F 1/	
<b>-</b>	<b>©</b>	F	P	Y	(N)	
	<u>G</u>	F	P	Y		
	(G)	F	P	<u>Y</u>	(N)	
Storm Drains Clean:	روی	1	- 1	1	(LV	· ·
	<b>G</b>	F	P	Y	(N)	
		Г.		I		<del></del>
BMPs:		<del>  </del>			3	
Hydroseed (Other)	G	F	P	Y	(N)	
	Œ	F	P	Y	(N)	
Sidewalks:	<u> </u>			-,-	(7)	
_	€ C	F	P	Y	(A)	
Weeds	6	F	P	Y	W	
Signage:						
Perimeter "Advisory"	6	F	P	Y		
	<u>(G</u> )	F	P	Y	(N)	
Dust:						
Excavation Areas	(G)	F	P	Y	N,	
Fencing:	ļ				<u> </u>	
4' Site Perimeter	G	$\bigcirc$	P	Y		
6' Temp. Panels	(G)	F	P	Y	(1)	
Street Lights:						
	(G)	F	P	Y	W	
Site Markers:						
Lot Numbers	<b>9</b>	F	P	Y	N	
Utilities	(G)	F	P	Y	W	
Survey Stakes	(G)	F	P	Y	N	
Retaining Walls:						
Baltimore	(G)	F	P	Y	CX .	
Lots 22/23/24	(G)	F	P	Y	(N	

## STACK HILL - Weekly Site Inspection Report No. SH 2012- 12 42 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Aisc. notes:	
light fost is down on Villard St. Cleared Catato basins	
Cleared Catalobasius	
	_
	<del>.</del>

I certify that this report is true	accurate and compl	ete, to the best of	f my knowledge :	and belief.

INSPECTOR:

DATE: 12

SIGNED:

H&S OFFICER: DATE:

SIGNED:



# **STREETS**

Weekly Site Inspection Report No. STR 2012- 1202

Week of: 12 1 2 - 12/8, 2012 Inspector: Harry Slaughter
Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS
Streets: Surface Paint Splitter Islands Barricades	G F P G F P G F P G F P	Y Ŵ Y Ŵ Y Ŋ	
Signage: Trespass Advisory Traffic Marketing	G F P G F P G F P G F P	Y (\$\sqrt{y}\) Y (\$\sqrt{y}\) Y (\$\sqrt{y}\) Y (\$\sqrt{y}\)	
Street Lights: Ruston Way 51 <sup>st</sup> Street Baltimore Yacht Club Junction Boxes	G F P G F P G F P	Y M Y W Y M Y M	
Storm Drains: Curb/Gutter CBs Filterras	G F P G F P	Y M Y N	Cleated Catch baSINS
Sidewalks: Paint Crossings Bollards	G F P G F P	Y OF Y OF Y OF	
Landscaping: Trees Plants Sprinkler Bark/Mulch	G F P G F P G F P	Y (N) Y (N) Y (N) Y (N)	
Roundabouts: Grand Yacht Club	(G) F P	Y (N)	
Features: Wall/Rail Development Sign	G F P	Y (N)	

## **STREETS** - Weekly Site Inspection Report No.

# Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:						
	$\bigcirc$	F	P	Y	$\vec{z}$	
Cooling Pond – North	G	F	P	Y	M	
Lot #12 -	(G)	F	P	Y	N	
Lot #10 – West —	$\overline{G}$	F	P	Y	N	
Lot #10 – North — BNSF – A	/G	F	P	Y	(A)	
OSW02	G	F	P	Y	(N)	
Grand – East	G	F	P	Y	(N)	
Grand – West		F	P	Y	M	
Cascade —	G	F	P	Y	M	
Yacht Club – North	6	F	P	Y		
Yacht Club – South	(G)	F	P	Y	$\langle N \rangle$	

Other:						
Roundabouts	(G)	F	P	Y	(N)	
Jersey Barriers	G	F	P	Y	(N)	
Baltimore Bridge	(G)	F	P	Y	(N)	

Misc. notes:	
Cleared	Catch basin on Baltimore Bridge
<del></del>	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

SIGNED:

**REVIEWED: DATE:** 



# **TEMPORARY IMPERMEABLE CAP**

Weekly Site Inspection Report No. TIC 2012- 1202

Week of: 12 12 - 12 18, 2012 Inspector: PAT WILKER Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

<u></u>			<del> 00</del>		NEED		er Site (Point Ruston)		
INSPECTION AREA	OVE COND				AIR?	COMMENTS/OBSERVATIONS			
Area A					Ì				
Geomembrane	G F	P	Y	N	Y	N			
Gravel Cover	GF		Y	N	Ŷ	N			
Edge Anchorage	$\frac{G}{G}$		Y	N	Y	N			
Drainage	70 F			N	Y	(N)			
2 tumage	G F	_	Y Y	N	Y	N'			
4 B	Co F	- P	Y	N	Y	I N			
Area B Geomembrane		———	1,	2.1	٧,	2.7			
Gravel Cover	G F		Y	N	Y	N			
	G F		Y	N	Y	N			
Edge Anchorage	G F		Y	N	Y	N	<u></u>		
Drainage	G F		Y- Y	N	Y	N )			
	G/F	P	(Y	N	Y	GN'			
Area C									
Geomembrane	GF	P	Y	N	Y	N			
Gravel Cover	G F	P	Y	N	Y	N			
Edge Anchorage	G F	P	Y	N	Y	N			
Drainage	√G F	P	X	N	Y	N	simulareas standing water		
	G F	P	W	N	Y	N			
Area D									
Geomembrane	G F	P	Y	N	Y	N			
Gravel Cover	GF		Y	N	Y	N			
Edge Anchorage	GF		Y	N	Ŷ	N			
Drainage				N	Y		some stanlary water		
S	6 F		Y) Y	N	Y	N	Some showing water		
Area E				1		11			
Geomembrane	G F	P	Y	N	Y	N			
Gravel Cover	GF		Y	N	Y	N			
Edge Anchorage	GF		Y	N	Y	N			
Drainage							Small areas standing water		
Dramage	G F		X) Y	N N	X) Y	N			
	(G/ F	P	- <u>Y</u>	IN .	Y	N			
Area F Geomembrane	C	n	37	NT.	- 37	NT.			
	G F		Y	N	Y	N			
Gravel Cover	G F		Y	N	Y	N			
Edge Anchorage	G F		Y	N	Y	N			
Drainage	G F		Y	N	Y	N <sub>)</sub>	worth in otherch pumped to 4		
	G/F	P	Ψ	N	Y	W	,		
Area G					<u> </u>	1			
Geomembrane	GF	' P	Y	N	Y	N			
Gravel Cover	G F	P	Y	N	Y	N			
Edge Anchorage	GF	P	Y	N	Y	N			
Drainage			X	N	Y	.Nb	1		
l	G F		4	N	Y	<del>                                     </del>	water in trench + Sand pumped to I		
	1 400 1	r	<u> </u>	17	I I	ΙīΝ	<u> </u>		

G=Good F=Fair P=Poor Y=Yes N=No

# TEMPORARY CAP - Weekly Site Inspection Report No.

# Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS	
Area H								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	Ģ	F	P	<u>Y</u> . (	N	Y	Ŋ	
	(G)	F	P	Ŷ	N	Y	(0)	
Area I								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	X,	N	Y	Ŋ	
	G	F	P	¥	N	Y	(N)	water from FoG drained to sump
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G-\	F	P	X	N	Y	Ŋ,	
	G	F	P	¥	N	Y	(N)	

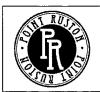
Misc. notes:				
<u></u>		 	 	
	·		 	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

REVIEWED: DATE:

 $\frac{12/8/12}{12/16/12}$  SIGNED: SIGNED:



# WATERWALK

Weekly Site Inspection Report No. WW 2012- 12 Ø 2

Week of:  $\sqrt{2} \sqrt{62} - \sqrt{2} \sqrt{68}$ , 2012 Inspector:  $\sqrt{6} \sqrt{6} \sqrt{6} \sqrt{6} \sqrt{6}$  Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA		VERA NDITI			ED AIR?	COMMENTS/OBSERVATIONS
Paths:	Good	Fair	Poor	Yes	No	
Asphalt	©	F	P	Y	(N)	
Gravel	(G)	F	P	Y	(N)	
Signage:	Good	Fair	Poor	Yes	No	
Trespass	(G)	F	P	Y	(E)	
Advisory	G	F	P	Y	B	
(Other)	G	F	P	Y	N	
Street Lights:	Good	Fair	Роот	Yes	No	
Junction Boxes	(G)	F	Р	Y	(N)	
Poles	(8)	F	P	Y	N	POLES PENVING NOTALLATION
Bulbs	G	F	P	Y	N	
Banners	G	F	P	Y	N	- 19/00-1
Storm Drains:	Good	Fair	Poor	Yes	No	
Area Drains	(G)	F	P	Y	Ŵ	
Clean Outs	6	F	P	Y	W	
Octopus:	Good	Fair	Poor	Yes	No	
Tile	(G)	F	P	Y	(N)	
Grout	6	F	P	Y	(M)	
Paint	(G)	F	P	Y	(N)	
Intersection #1:	Good	Fair	Poor	Yes	No	
Tile	(G)	F	Р	Y	(N)	
Grout	ক্ত	F	Р	Y	(N)	
Paint	6	F	Р	Y	N	
Intersection #2:	Good	Fair	Poor	Yes	No	
Tile	G	F	P	Y	N	MOONPLETE
Grout	G	F	Р	Y	N	
Paint	G	F	Р	Y	N	
Intersection #3:	Good	Fair	Poor	Yes	No	
Tile	G	F	P	Y	N	IN COMPLETE
Grout	G	F	Р	Y	N	1.
Paint	G	F	P	Y	N	
Intersection #4:	Good	Fair	Poor	Yes	No	
Tile	G	F	P	Y	N	INCOMPLETE
Grout	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Sprinkler:	Good	Fair	Poor	Yes	No	
Heads	(G)	F	P	Y	(N)	ABOUT 75% COMPLETE
Valve Boxes	(G)	F	P	Y	N	THE THE PARTY OF T

# STREETS - Weekly Site Inspection Report No.

# ETS - Weekly Site Inspection Report No. WW 2012- / 2 Ø 2 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Cleat Benches Tables Tables G G F P Y N PENDING NSTRUATION  Trash Cans G F P Y N  Trash Cans Trash Cans G F P Y N  Trash Cans Trash Cans Trash Cans G F P Y N  Trash Cans Trash Cans Trash Cans Trash Cans G F P Y N  Trash Cans Trash Cans Trash Cans G F P Y N  Trash Cans Trash Cans Trash Cans Trash Cans Trash Cans G F P Y N  Trash Cans Trash	Plants Sprinkler Bark/Mulch G F Bark/Mulch G F Hardware: Cleat Benches G F Tables G F Trash Cans G F Trash Cans G F  Good Fair Ferry – South TIC – I/H Intersection #1 G G G G G G G G G G G G G G G G G G G	Poor	· I . I	Yes	No	
Plants	Plants Sprinkler Bark/Mulch GF  Hardware: Cleat Benches GF Tables Trash Cans GF  Trash Cans GF  Trash Cans GF  Trash Cans GF  Good Fair Ferry – South TIC – I/H Intersection #1 GF Intersection #2 GF Intersection #3 GF Grand Plaza GF Intersection #4 Peninsula - North GF  Grand Plaza: Concrete Rails GF  Big Toy: Good Fair Coyotes Tide Pool GF  Misc. notes:	P	es GF	Y	(B)	
Bark/Mulch	Bark/Mulch  Hardware: Cleat Benches G F Tables G F Trash Cans  Good Fair  Good Fair  Ferry – South TIC – I/H Intersection #1 Intersection #2 Intersection #3 Grand Plaza Intersection #4 Peninsula - North  Grand Plaza: Concrete Rails G F Rair  Big Toy: Block Wall Swings Chips Good Fair  Coyotes Tide Pool  Good Fair	P	nts G F	Y		
Hardware:	Hardware: Cleat Benches Tables Trash Cans  Good Fair  Good Fair  Good Fair  Good Fair  Ferry - South TIC - I/H Intersection #1 Intersection #2 Intersection #3 Grand Plaza Intersection #4 Peninsula - North  Grand Plaza: Lights Concrete Rails  Good Fair  F  Concrete Rails  Good Fair  Coyotes Tide Pool F  Misc. notes:	P	kler G F	Y	(E)	
Hardware:   Cleat Benches   G   F   P   Y   N   PENDING   NSTEAM TON	Cleat Benches Tables Tables G F Trash Cans G F  Trash Cans G F  Trash Cans G F  Good Fair  Ferry – South TIC – I/H Intersection #1 Intersection #2 Intersection #3 G Grand Plaza G Intersection #4 Peninsula - North G G F  Good Fair  Concrete Rails G F  Big Toy: Block Wall Swings Chips G G F  Covotes Tide Pool G Misc. notes:	P	Mulch G F	Y	N	SOME GRASS AREAS NEED PATCHING
Tables Trash Cans  G F P Y N  (G F F F F F F F F F F F F F F F F F F	Tables Trash Cans  G F Trash Cans  G F G F  G F  G F  G F  G G F  G G F  G G G G G G G G G G G G G G G G G G G	Poor	Good Fair P	Yes	No	
Trash Cans	Trash Cans  G F  Gates:  Ferry - South TIC - I/H Intersection #1 Intersection #2 Intersection #3 Grand Plaza Intersection #4 Peninsula - North  G F  Grand Plaza: Lights Concrete Rails  G F  Block Wall Swings Chips  Good Fair Coyotes Tide Pool  G F  Misc. notes:	P	enches G F	Y	N	PENDING INSTRUCTION
Gates:  Ferry - South TIC - I/H G F P Y N INSTALLED 12/4/12 Terross W.W.  Ferry - South TIC - I/H G F P Y N Intersection #1 Intersection #2 Intersection #3 G F P Y N G F P P Y N G F P	Gates:  Ferry - South TIC - I/H Intersection #1 Intersection #2 Intersection #3 Grand Plaza Intersection #4 Peninsula - North  Grand Plaza: Lights Concrete Rails  Grand Plaza: Good Fair  Coyotes Tide Pool F  Misc. notes:	P	oles G F	Y	N	N <sub>1</sub>
Ferry - South   G	Ferry – South TIC – I/H G F Intersection #1 G F Intersection #2 G F Intersection #3 G F Grand Plaza G F Intersection #4 Peninsula - North G F  Grand Plaza:  Lights Concrete Rails G F  Block Wall G F  Swings G F  Chips Good Fair Coyotes Tide Pool G F  Misc. notes:	P	Cans G F	Y	N	f i
Ferry - South   G	Ferry – South TIC – I/H G F Intersection #1 G F Intersection #2 G F Intersection #3 G F Grand Plaza G F Intersection #4 Peninsula - North G F  Grand Plaza:  Lights Concrete Rails G F  Big Toy:  Block Wall Swings Chips G F  Coyotes Tide Pool G F  Misc. notes:	Poor	Good Fair P	Ves	No	
TIC - I/H Intersection #1 Intersection #2 Intersection #3 G F P Y N PENDING  Intersection #3 G F P Y N Grand Plaza G F P Y N Intersection #4 Peninsula - North G F P Y N  Grand Plaza:  Lights Concrete Rails G F P Y N  Good Fair Poor Ves Rails G F P Y N  Block Wall Swings Chips G F P Y N  Good Fair Poor Ves No G F P Y N  CONDUCT NOTIFICATION  ONE  ONE  ONE  ONE  ONE  ONE  ONE	TIC - I/H Intersection #1 Intersection #2 Intersection #3 G F Intersection #3 G F Intersection #3 G F Intersection #4 G F Peninsula - North G F  Grand Plaza: Lights Concrete Rails G F  Big Toy: Good Fair Good Fair Block Wall Swings Chips G F  Other: Coyotes Tide Pool G F  Misc. notes:		<u> </u>	<del></del>		11/2 12/4/12 1 - 11/4/
Intersection #1 Intersection #2 Intersection #2 Intersection #3 G F P Y N PENDING  Intersection #3 G F P Y N Intersection #4 Peninsula - North Intersection #4 Peninsu	Intersection #1 Intersection #2 Intersection #2 Intersection #3 G G F Intersection #3 G G F Intersection #4 G F Peninsula - North G G F  Grand Plaza: Lights Concrete Rails G G F  Good Fair G F  Big Toy: Block Wall Swings Chips G G F  Coyotes Tide Pool G Misc. notes:					, ,
Intersection #2 Intersection #3 G F P Y N PENDING  Grand Plaza Intersection #4 Peninsula - North G F P Y N  Grand Plaza:  Lights Concrete Rails G F P Y N  Conduct Instructor In	Intersection #2 Intersection #3 Grand Plaza Intersection #4 Grand Plaza: Intersection #4 Peninsula - North  Grand Plaza:  Lights Concrete Rails  Good Fair  Coyotes Tide Pool  Misc. notes:					1
Intersection #3 Grand Plaza Grand Plaza Intersection #4 Peninsula - North GFPYNN  GFPYNN  Grand Plaza:  Cood Fair Foor Yes No  Concrete GFPYNN  Concrete GFPYNN  Concrete Rails GFPYNN  FENDING  Good Fair Foor Yes No  Combutt Instructor Instructor Instructor Instructor Instructor  Concrete GFPYNN  FENDING  Other:  Coyotes Tide Pool GFPYNN  Continued Fair Foor Yes No  Coyotes Tide Pool GFPYNN  Continued Fair Foor Yes No	Intersection #3 G F Grand Plaza Intersection #4 Peninsula - North G F  Grand Plaza: Lights Concrete Rails G F  Good Fair G F  Good Fair G F  Good Fair G F  Good Fair G F  Concrete G F  Rails G F  Concrete Rails G F  Good Fair G F  Good Fair F  Good Fair F  Good Fair F  Good Fair G F  Good Fair F  Misc. notes:					
Grand Plaza Intersection #4 Peninsula - North  G F P Y N Peninsula - North  G F F P Y N Peninsula - North  G F F P Y N Peninsula - North  G F F P Y N Peninsula - North  G F F P Y N Peninsula - North  G F F P Y N Peninsula - North  G F F P Y N Penin	Grand Plaza Intersection #4 Peninsula - North  GF  Grand Plaza:  Lights Concrete Rails  Good Fair  Coyotes Tide Pool  GF  Misc. notes:					
Intersection #4 Peninsula - North  G F P Y N  G F P Y N  G F P Y N  G G F P Y N  G G F P Y N  G G F P Y N  G G F P Y N  G G F P Y N  G G F P Y N  G G G G G G G G G G G G G G G G G	Intersection #4 Peninsula - North  G F  G F  Grand Plaza:  Lights  Concrete  Rails  G F  G F  G F  G F  G F  G F  G F  G		H 3 + 1 + 1			
Peninsula - North  G F P Y N  Grand Plaza:  Lights Concrete Rails G F P Y N  Big Toy:  Block Wall Swings Chips G F P Y N  Cond Fair Poor Yes No  Block Wall Swings Chips G F P Y N  Cond Fair Poor Yes No  Con	Peninsula - North  G F  Grand Plaza: Lights Concrete Rails  G F  Rails  Good Fair G F  Coyotes Tide Pool G F  Misc. notes:					
Grand Plaza:  Lights  Grand Fair Poor Yes No  Concrete Rails  Grand Fair Poor Yes No  Concrete Rails  Grand Plaza:  Concrete Rails  Grand Plaza:  Concrete Rails  Grand Plaza:  Concrete Rails  Grand Plaza:  Grand Plaza:  Concrete Rails  Grand Plaza:  Grand Plaza:  Root  France Rails  Grand Plaza:  Root  France Rails  Grand Plaza:  Root  France Rails  Grand Plaza:  Root  Rails  Grand Plaza:  Root  Rails  Grand Plaza:  Root	Grand Plaza:  Lights Concrete Rails  Good Fair  Good Fair  Good Fair  Block Wall Swings Chips  Good Fair  Good Fair  Good Fair  F  Coyotes Tide Pool  Misc. notes:				_	
Lights Concrete G F P Y D Conduit Nathlook Concrete Rails G F P Y N PENDING  Big Toy: Good Fair Poor Yes No Block Wall Swings G F P Y N STAGING BLOCKS + PREP FOR WALL Chips G F P Y N PENDING  Other: Good Fair Poor Yes No Coyotes Tide Pool G F P Y N CONTAINMENT BOOM NEWS REMOVED  Misc. notes:	Lights Concrete Rails  G F Rails  G F  Rails  G F  Good Fair  Block Wall G F  Swings Chips  G F  Coyotes Tide Pool  G F  Misc. notes:	-		1		
Concrete Rails GFPYN Rails GFPYN Rails GFPYN RENDING  Big Toy: Good Fair Poor Yes No Block Wall Swings GFPYN Chips GFPYN RENDING  Other: Coyotes Tide Pool GFPYN RO CONT MISSING TALL CONTINAENT BOOM NEWS REMOVED  Misc. notes:	Concrete Rails  G F Rails  G F  Big Toy:  Block Wall Swings Chips  G F  Coyotes Tide Pool  G F  Misc. notes:	Poor		Yes		
Rails G F P Y N PENDING  Big Toy:  Block Wall G F P Y N STAGING BLOCKS & PRED FOR WALL  Swings G F P Y N PENDING  Chips G F P Y N PENDING  Other:  Coyotes G F P Y N CONT MISSING TALL  Tide Pool G F P Y N CONT MINMENT BOOM NEWDS REMOVED  Misc. notes:	Rails  G F  Big Toy:  Block Wall  Swings  Chips  G F  Chips  G F  Coyotes  Tide Pool  G F  Misc. notes:	P		Y		CONDUIT INSTALOD WOOK.
Big Toy:  Block Wall Swings Chips  Good Fair Poor Yes No  STAGING BLOCKS & PRED FOR WALL Swings Chips  GFPY N FENDING  Other:  Coyotes Tide Pool GFPY N CONTMANENT BOOM NOWES REMOVED  Misc. notes:	Big Toy:  Block Wall  Swings  Chips  Good  Fair  Good  Fair  Coyotes  Tide Pool  Misc. notes:	P		Y	(N)	
Block Wall Swings G F P Y N STAGING BLOCKS + PROPER WALL Swings Chips G F P Y N PENDING  Other:  Coyotes G F P Y N CONT MISSING TALL  Tide Pool G F P Y N CONT MISSING TALL  CONTAINMENT BOOM NORTHS REMOVED  Misc. notes:	Block Wall Swings Chips GF GF Good Fair Coyotes Tide Pool GF  Misc. notes:	P	ils G F	Y	N	PENDING
Block Wall Swings G F P Y N STAGING BLOCKS + PROPER WALL Swings Chips G F P Y N PENDING  Other:  Coyotes G F P Y N CONT MISSING TALL  Tide Pool G F P Y N CONT MISSING TALL  CONTAINMENT BOOM NORTHS REMOVED  Misc. notes:	Block Wall Swings Chips GF GF Chips Good Fair Coyotes Tide Pool GF  Misc. notes:	Poor	Good Fair P	Yes	No	
Swings Chips GFPYN  GFPYN  Other:  Coyotes Tide Pool GFPYN  Contained The Contained Th	Swings Chips G F G F Other: Coyotes Tide Pool G F  Misc. notes:  certify that this report is true, accurate and	P	Wall G F	Y	N	STAGING BLOCKS & PRON FOR WHA
Chips  G F P Y N PENDING  Other:  Good Fair Poor Yes No Coyotes Tide Pool G F P Y N CONT MISSING TALL  CONTAINMENT BOOM NOWNS REMOVED  Misc. notes:	Chips  G F  Other:  Coyotes Tide Pool  Misc. notes:  Certify that this report is true, accurate and		I 1 1			
Other:  Coyotes  Coyotes  Tide Pool  F P Y N CONTINUENT SOOM NEEDS REMOVED  Misc. notes:	Coyotes Tide Pool  Misc. notes:  certify that this report is true, accurate and					PENDIN G
Coyotes  Tide Pool  F P Y N CONTMINSTRACTML  Tide Pool  G F P Y N CONTMINSTRACT BOOM NEWS REMOVED  Misc. notes:	Coyotes Tide Pool  Misc. notes:  certify that this report is true, accurate and				1	
Tide Pool G F P Y N CONTMANENT BOOM NUMBS REMOVED  Misc. notes:	Tide Pool G F  Misc. notes:  certify that this report is true, accurate and					
Misc. notes:	Misc. notes:  certify that this report is true, accurate and					
	certify that this report is true, accurate and	P	Pool G F	Y	(N)	CONTHAMENT BOOM NEEDS KEMOUND
	certify that this report is true, accurate and					
ertify that this report is true, accurate and complete, to the best of my knowledge and belief.	/		· · · · · · · · · · · · · · · · · · ·			
ertify that this report is true, accurate and complete, to the best of my knowledge and belief.	/					
ertify that this report is true, accurate and complete, to the best of my knowledge and belief.	/					
ertify that this report is true, accurate and complete, to the best of my knowledge and belief.	/				-	
ertify that this report is true, accurate and complete, to the best of my knowledge and belief.	/	1		40 4- 41	 h4 -	f my Imageladae and haliaf
	NSPECTOR: DATE:	compl	s report is true, accurate and co	ne, to th	ie dest o	i my knowledge and benef.
/ /10	NSPECTOR: DATE:/ 乳//	1.	/			<b>A</b>
SPECTOR: DATE: $\frac{12/16/12}{}$ SIGNED:		<u>CO / 1 .</u>	DATE: / 2// 6	<u>ل</u>	s	IGNED:
1 1 and the second	,		, ,			at the same of the
	EVIEWED: DATE: 12/	15/	DATE: <u>12/19</u>	2		SIGNED:



# **GENERAL SITE**

Weekly Site Inspection Report No. GEN 2012-1209

Week of: 12/9 - 12/15, 2012 Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION	VO.	ERA	L	NEED REPAIR?		COMMENTS/OBSERVATIONS
AREA	CON	DIT	ION	KEP.	AIR?	
Gates:		_		ļ <u> </u>		(See "Streets" Report for additional gates)
Slag Peninsula	(G)	F	P	Y	Ŋ	
52 <sup>nd</sup> Street	(G)	F	P	Y	(N)	
54 <sup>th</sup> Street (electric)	(G)	F	P	Y	(N)	
Signage:						···
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
Security:						
Locks	(G)	F	P	Y	(Z)	
Alarms	G	F	P	Y	(D)	
Cameras	G	Ē	P	Y	(N)	
*		Œ/		<u> </u>		
BMPs: Silt Fence				37	()T	
	06	F	P	Y	(N)	
Waddles	(G)	F	P	Y	(N)	
Nursery:						
Plants		F	P	Y	(N)	
Sprinkler	(G)	F	P	(Y)	N	News WINTERIZED
Weeds	(G)	E	P	Y	(N)	
Stockpiles:						
Envirotac II	(G)	F	P	Y		
Plastic	(G)	F	P	Y	$\overline{\mathbb{N}}$	
Packed	(G)	F	P	Y	(N)	
Grass	60	F	P	Y	Ø	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	6	F	P	Y	N	
Fencing:			_	<u> </u>		**************************************
Site Perimeter	<b>©</b>	F	P	Y	(N)	
Zone Separation	(G)	$\frac{\Gamma}{F}$	P	Y	(N)	Complete MAA
	10/	1	1	<del></del>	(1)	CONTINUOUS MANUTENANCE
CRZs: Area D		F	P	V	ATK	
	<u>©</u>			Y	(1)	
(Other)	G	F	P	Y	N	
Haul Roads:	\(\frac{1}{\infty}\)			ļ <u></u>	1	
Main Street	Q	F	P	Y	(M)	
Grand Ave.	(Q)	F	P	Y	(M)	
OCF road	G	F	<u>P</u>	Y	(D)	
Metr.Pks-Peninsula	(G)	F	P	Y		<u> </u>

# GENERAL SITE - Weekly Site Inspection Report No. GEN 2012- 1209 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:  ir Monitoring:  Day of Week Hi-Vol QTY QTY QTY Air Monitoring Notes
Day of Week Hi-Vol QTY Personal Portable QTY Air Monitoring Notes
Day of Week Hi-Vol QTY Personal QTY Portable QTY Air Monitoring Notes
Day of Week Hi-Vol QTY Personal QTY Portable QTY Air Monitoring Notes
Day of Week Hi-Vol QTY Personal QTY Portable QTY Air Monitoring Notes
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Day of Week Hi-Vol QTY Personal Portable QTY Air Monitoring Notes
Day of Week Hi-Vol QTY Personal QTY Portable QTY Air Monitoring Notes
Day of Week Hi-Vol QTY Personal QTY Portable QTY Air Monitoring Notes
Day of Week Hi-Vol QTY Personal QTY Portable QTY Air Monitoring Notes
Sun  9  の の (/)  K\ へ   ZA   QcTIVJTV
MON TO D ALONG MAINST / 1.1 C.T (STORN FRAND) / 1.1 C. I (NOSTALL)
12 1 A WATERWALK PREPFOR WHEREWELL TRINER
Wed 12 ) U Sprematipson /T.I.C-H LINER / PAVING / I.C. COURT
1 T.I.C. H (LINER) 2A (FOR HARDSCAPES) 2B STORM
11 17 ) W dA (MANJST // WATER WACK (TODSON) / 1.1C. H (COUER)
Sat 15 3 D D 2A (GRADING MANST.) (CONTRLINION) 2BE (FOUNDATION WORK)
VEATHER:
Day of Week (LOW/HIGH) Summary of Weather Conditions
Sun 9 37°44°; SSW WIND IMPH/GUST LOMPH, PRECIP. 0.12" (EVE)
MON 10 41°44°; WHW WIND ZMPH/GUST 10MPH, PRECIP. W.DT" (SCATTERED
Tue 11 40°45; SSW WIND COMPHIGUST 1 SMPH, MRECIP. O.1" (AFTERNOON)
Wed 12 39:44:3W WIND 3MPH/GUST 9MPH, PRECIP 10.103" (MORNING)
Thu 13 37°/44°; SSW WIND 2MPH (GUST 9 MPH, PRECIP. Ø.12" (LATE EVE)
Fri 14 33°42°; SW WIND ZMPH/(JUST YMPH, TRECIP. 0.22° (Early MURN)
Sat 15 32-41: SSW WIND SMPH/GUST 14MPH, HECLP, 10.12' (SCATTERED)
certify that this report is true, accurate and complete, to the best of my knowledge and belief.
INSPECTOR: DATE: 12/17/2012 SIGNED:
H&S OFFICER: DATE: $12/17/12$ SIGNED:



# **STACK HILL**

Weekly Site Inspection Report No. SH 2012- リスダタ

Week of: 12/9 - 12/15, 2012 Inspector: Harry Share Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

	_					na Smelter Site (Point Ruston)
INSPECTION AREA		ERA IDIT			ED AIR?	COMMENTS/OBSERVATIONS
Streets:  Villard St.  Court St.  Commercial St.  Baltimore St.  49 <sup>th</sup> St.  Tract A (private)  Lot #18 (private)	(G) (G) (G) (G) (G) (G)	F F F F	P P P P P	Y Y Y Y Y Y	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
View Point: Parking Pad Gravel Path Display Boards Storm Drains Clean:	(9 (0 (0	F F F	P P P	Y Y Y	<b>Z Z Z</b>	
Catch Basins	<b>©</b>	F	P	Y	Ŵ	
BMPs: Hydroseed (Other)	(G)	F F	P P	Y	Z C	
Sidewalks: Damage Weeds	Ĉ.	F F	P P	Y		
Signage: Perimeter "Advisory" No Trespass (Tunnel Hillside)	(G)	F F	P P	Y	88	
Dust: Excavation Areas	G	F	P	Y	(Z)	
Fencing: 4' Site Perimeter 6' Temp. Panels	(Ö)	F F	P P	Y Y	(Z)	
Street Lights: Condition	<b>6</b> 5	F	P	Y	<b>₽</b> ₽	
Site Markers:  Lot Numbers  Utilities  Survey Stakes	මමම	F F F	P P P	Y Y Y	EXE	
Retaining Walls:  Baltimore  Lots 22/23/24	<u>©</u>	F F	P P	Y	N N	

# STACK HILL - Weekly Site Inspection Report No. SH 2012- 1259 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:
Light pole down on Villard
Light pole down on Villard Chenter draws on Baltimore
ertify that this report is true, accurate and complete, to the best of my knowledge and belief.
NSPECTOR: DATE: 12/14/12 SIGNED: X+aug 2. 20
NSPECTOR: DATE: 12/17/12 SIGNED: Atomic Signed:
I&S OFFICER: DATE: 12/12 SIGNED:



# **STREETS**

Weekly Site Inspection Report No. STR 2012- 1209

			_		oma Smeller Site (Pomit Ruston)
INSPECTION AREA	OVER CONDIT			ED AIR?	COMMENTS/OBSERVATIONS
	CONDIT	ION	KEP	AIK:	, , ,
Streets: Surface Paint Splitter Islands	GF GF F	P P	Y Y Y	(A) (A)	
Barricades	(G) F	P	Y	(N)	
Signage: Trespass Advisory Traffic Marketing	G F G F G F G F	P P P	Y Y Y Y		
Street Lights: Ruston Way 51 <sup>st</sup> Street Baltimore Yacht Club Junction Boxes	G F G F G F G F	P P P P	Y Y Y Y Y		
Storm Drains: Curb/Gutter CBs Filterras	(G) F (G) F	P P P	Y Y Y	(D) (D)	Cleated Stains
Sidewalks: Paint Crossings Bollards	(G) F (G) F (G) F	P P P	У У У		
Landscaping: Trees Plants Sprinkler Bark/Mulch	(す) F (す) F (す) F (す) F	P P P	Y Y Y Y	(N) (N) (N) (N)	
Roundabouts: Grand Yacht Club	<ul><li>G F</li><li>G F</li></ul>	P P	Y	(N)	
Features: Wall/Rail Development Sign	<ul><li>G F</li><li>G F</li></ul>	P P	Y Y	(N)	

## **STREETS** - Weekly Site Inspection Report No.

## STR 2012-1209

# Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:						
Cooling Pond – West	Ĝ	F	Р	Y	$\widehat{N}$	
Cooling Pond - North	G	F	P	Y	(N)	
Lot #12	(G)	F	P	Y	$(\hat{\mathbf{N}}_{\perp})$	
Lot #10 – West	Ğ	F	P	Y	Ň	
Lot #10 – North BNSF – A	$\mathbf{G}$	F	P	Y	(A)	
OSW02	(G)	F	P	Y	(D)	
Grand – East	$(\widetilde{\widehat{\mathbf{G}}})$	_F	P	Y	<b>₽</b> ₽	
Grand - West	<b>G</b> >	F	P	Y	<b>₩</b>	
Cascade	G	F	P	Y	(N)	
Yacht Club - North	Ġ	F	P	Y	W)	
Yacht Club – South	$\mathbf{G}$	F	P	Y	(X)	

Other:						
Roundabouts	<b>©</b>	F	P	Y	(V)	
Jersey Barriers	(G)	F	P	Y	Ø	***
Baltimore Bridge	G	F	P	Y	(N)	Clearent Arains

Misc. notes:
heart barricades on Battimure.

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12-14-2012

SIGNED:

Alangha.

REVIEWED: DATE:

12-17-12

SIGNED



# **TEMPORARY IMPERMEABLE CAP**

Weekly Site Inspection Report No. TIC 2012- 1209

Week of: 12 19 - 12115, 2012 Inspector: PAT WILLS ER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Operable	Unit UZ – Asi	arco Taco	ma Smeit	er Site (Point Ruston)	
INSPECTION AREA	OVERAL CONDITION	CLEAN?	NEED REPAIR?	COMMENTS/OBSERVATIONS	
Area A Geomembrane Gravel Cover Edge Anchorage Drainage  Area B Geomembrane Gravel Cover	G F P G F P G F P G F P G F P G F P	Y N Y N Y N Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N Y N Y N		
Edge Anchorage Drainage	G F P (G) F P (G) F P	Y N Y N Y N	Y N Y N Y N		
Area C Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P G F P	Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y (N Y (N)	Some standow water	
Area D Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P	Y N Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N	Some standay water	
Area E Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P G F P	Y N Y N Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N Y N Y (N)	some stanting water	
Area F Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P G F P	Y N Y N Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N	water in contection travely pumped to G	
Area G Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P G F P	Y N Y N Y N Y N Y N Y N Y N	Y N Y N Y N Y A Y W	water in collection trench pumped to I sump	

G=Good F=Fair P=Poor Y=Yes N=No

# TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2012- 1299 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA		VERA NDIT		CLE	AN?		ED AIR?	COMMENTS/OBSERVATIONS
Area H								
Geomembrane	/G	F	P	Y	N	Y	/N )	
Gravel Cover	G	F	P	Y	N	Y	N/	linen nailin Cover, Nedge lest
Edge Anchorage	(G)	F	P	Y	N	Y	/N	linen partial cover, Nedge left exposed for future cover-
Drainage	/G/	F	P	Y	N	Y	I M	7,0000 40.40000
	G	F	P	(Ŷ)	N	Y	N	
Area I								
Geomembrane	Ğ	F	P	Y	N	Y	M	
Gravel Cover	/ <b>G</b> ∖	F	P	Y	N	Y	N	lines cover on SE avea
Edge Anchorage	G	F	P	Y	N	Y	N	Times cover on SE aveca Surp areo left for wellen
Drainage	G	F	P	X.	N	Y	N/	control
	G	F	P	/Y)	N	Y	N	
Area J	•						$\vee$	
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	X.	N	Y	N)	
	G/	F	P	Y	N	Y	/Ŋ/	

Misc. notes:		
	 · · · · · · · · · · · · · · · · · · ·	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

//2 SIGNED: \_\_\_\_\_

REVIEWED: DATE:



# WATERWALK

Weekly Site Inspection Report No. WW 2012- 12 Ø 9

Week of:  $\sqrt{2}/\sqrt{9}$  -  $\sqrt{2}/\sqrt{5}$  , 2012 Inspector:  $\sqrt{2}/\sqrt{8}$  Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	O,	VERA NDITI	L	NE	ED AIR?	COMMENTS/OBSERVATIONS	
Paths:	Good	Fair	Poor	Yes	No		
Asphalt	(3)	F	P	Y	N	COMPETED 12/12/12 (TO NORTH EVD	
Gravel	<u>G</u>	F	P	Y	(N)		
Signage:	Good	Fair	Poor	Yes	No		
Trespass	G	F	P	Y	(A)		
Advisory	(G)	F	P	Y	(3)		
(Other)	Ğ	F	P	Y	N		
Street Lights:	Good	Fair	Poor	Yes	No		
Junction Boxes	(G)	F	P	Y	(10)		
Poles	G	F	P	Y	N	PENDING	
Bulbs	G	F	P	Y	N	11	
Banners	G	F	P	Y	N		
Storm Drains:	Good	Fair	Poor	Yes	No		
Area Drains	(G)	F	P	Y	(N)		
Clean Outs	G/	F	P	Y	(N)		
Octopus:	Good	Fair	Poor	Yes	No		
Tile	(G)	F	P	Y	(N)		
Grout	6	F	Р	Y	<b>(Z)</b>		
Paint	G	F	P	Y	$\langle V \rangle$		
Intersection #1:	Good	Fair	Poor	Yes	No		
Tile	G	F	P	Y	(N)		
Grout	(G)	F	P	Y	$\bigcirc$		
Paint	(G)	F	P	Y	N		
Intersection #2:	Good	Fair	Poor	Yes	No		
Tile	G	F	P	Y	(Z)	IN PROGRESS	
Grout	(G)	F	P	Y	$\langle N \rangle$	11	
Paint	9	F	P	Y	W		
Intersection #3:	Good	Fair	Poor	Yes	No		
Tile	(G)	F	P	Y	(N)	IN PROBRESS	
Grout	(G)	F	P	Y	N	. 11	
Paint	(G)	F	P	Y	$(\hat{N})$		
Intersection #4:	Good	Fair	Poor	Yes	No		
Tile	G	F	P	Y	N	PENDINE	
Grout	G	F	P	Y	N	11	
Paint	G	F	P	Y	N	lq.	
Sprinkler:	Good	Fair	Poor	Yes	No		
Heads	(G)	F	P	Y	N		
Valve Boxes	(G)	F	P	Y	R		

# **STREETS** - Weekly Site Inspection Report No.

# WW 2012-1289

# Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Landscaping:	Good	Fair	Poor	Yes	No	
Trees	G	F	P	Y	N	IN PROGRESS
Plants	G	F	P	Y	N	1 1
Sprinkler	G	F	P	Y	N	1.)
Bark/Mulch	G	F	P	Y	N	11
Hardware:	Good	Fair	Poor	Yes	No	
Cleat Benches	G	F	Р	Y	N	PENNING
Tables	G	F	P	Y	N	11
Trash Cans	G	F	P	Y	N	1;
					·	
Gates:	Good	Fair	Poor	Yes	No	
Ferry – South	(G)	F	P	Y	W	
TIC – I/H	G	F	P	Y	N	PEUDING
Intersection #1	G	F	P	Y	N	1,
Intersection #2	G	F	P	Y	N	\1
Intersection #3	G	F	P	Y	N	• )
Grand Plaza	G	F	P	Y	N	1.1
Intersection #4	G	F	P	Y	N	13
Peninsula - North	(G)	F	P	Y	<b>(E</b> )	
G 170	1				1	
Grand Plaza:	Good	Fair	Poor	Yes	No.	
Lights	99	<u> </u>	P	Y	N	CONDUITS ONLY
Concrete		F	P	Y	(N)	1/1
Rails	G	F	P	Y	N	N/A
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	(G)	F	P	Y	(Ž)	
Swings	G	F	P	Y	(N)	
Chips	G	F	Р	Y	N	PENDING
	1				1	
Other:	Good	Fair	Poor	Yes	No	
Coyotes	G	F	P	Y		
Tide Pool	(g)	F	P	Y	(N)	
Misc. notes:		·· ·				
soutification and in the		ata and	Laammi	ata ta t	ha hast c	of my knowledge and belief.
certify that this report is tri	ie, accur	ate and	Compi	eie, io i	ne best c	of my knowledge and belief.
NSPECTOR: DATE:		12	/	12	S	SIGNED:
REVIEWED: DATE:		12	ן     בנו	12		SIGNED:
			/			



# **GENERAL SITE**

Weekly Site Inspection Report No. GEN 2012-1216

Week of: 12/16-12/22, 2012 Inspector: TIM RUSHER

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION					ED	ila Silieiter Site (Foliit Rustoli)
AREA	OVERAL CONDITION			REPAIR?		COMMENTS/OBSERVATIONS
Gates:	COIN			1001		(See "Streets" Report for additional gates)
Slag Peninsula	G	F	P	Y	N	(bee streets report for additional gates)
52 <sup>nd</sup> Street	6	F	- <u>r</u>	Y	M	
54 <sup>th</sup> Street (electric)	6	F	P	Y	(N)	
·		1	1	1	(1)	
Signage:	60	F	P	Y	(N)	
Gates Perimeter	(Q)	F	P	Y		
Safety	G	F	P	Y	(N)	
• • • • • • • • • • • • • • • • • • • •	<u>U</u>	r	<u> </u>	Y	N	
Security:		<del></del>		37	1	
Locks	<u>G</u>	F	P	Y	(3(3)	
Alarms	<u>G</u>	F	P	Y		
Cameras	G (	<u>F</u> )	P	Y	(N)	
BMPs:						12/21
Silt Fence	(G)	F	P	Y	CE CE	REPAIR DE SILT FENCE NEME YOUR CLUB (PENNOW
Waddles	(F)	F	P	Y	$\langle \mathcal{R} \rangle$	, , , , , , , , , , , , , , , , , , , ,
Nursery:						
Plants		F	P	Y		
Sprinkler		F	P	Y	(M)	
Weeds	$\bigcirc$	F	P	Y	B	
Stockpiles:						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	<b>©</b>	F	P	Y	N	
Packed	<b>(a)</b>	F	P	Y	D	
Grass		F	P	Y	N	
Dust:						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	60	F	P	Y	(A)	
Fencing:		_				
Site Perimeter	<b>@</b>	F	P	Y	(A)	
Zone Separation	G	F	P	Y	(N)	COUTINUOUS MAINTENANCE
CRZs:		<u> </u>				COUTINGUES IMMATENANCE
Area D	6	F	P	Y	$\left( \widehat{N} \right)$	
(Other)	G	F	P	Y	N	
	<del>                                     </del>	Τ.	r r	1	IN	
Haul Roads: Main Street		E	D	37	(N)	
		F	P	Y	N	
Grand Ave.	9	F	P	Y	(N)	
OCF road Metr.Pks-Peninsula	(G)	F	P	Y	N	
ivieu. Pks-Peninsula	G	F	P	Y	(N)	

# GENERAL SITE - Weekly Site Inspection Report No. GEN 2012-1216 Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

Misc. notes:
FENCING. REQUIRED EXTRA TIME TO REPAIR.
FENCING. REQUIRED EXTRA TIME TO REDAIR.
BMPS: REPARED SAGGING SILT FENCE NEAR THEY AGAT CLUB END OF THE PENINSULA. 12/21/12
END OF THE PENINSULA. 12/21/12
/ /

Air Monitoring:

A	IL IATO	nitor	mg:			
	Day of	Week	Hi-Vol QTY	Personal QTY	Portable QTY	Air Monitoring Notes
	Sun	16	$ \emptyset $	$\emptyset$	Ø	NO RA ACTIVITY
	Mon	17	3	Ø		BIG TOY DUCK WOOD CHIPS) / 213 (FOUND ADON) /2 A (GRANNG)
	Tue	18	3		Ø `	24/2B (STOR KBONIN)
	Wed	19	3	$\phi$	$\emptyset$	11 /2A (GRADING) MAINST.
	Thu	20	3	$\Diamond$		2A/2B (STORE DEARN)
	Fri	21	3	$\bigcirc$	0	E-SAMPLER AT S. END/PUMPT. I. C.F
	Sat	22	0	$\bigcirc$	$\Diamond$	NO'RA ACTIVITY

## **WEATHER:**

Day of	Week	(LOW/HIGH) Summary of Weather Conditions
Sun	16	35/41; SOUTH WIND 5MPH/GUST 15MPH, PRECIP. 1098' (ALL DAY)
Mon	17	32.46; SSW WIND 12MPH/GUST 25MPH, PRECIP. D. U9" (EARLY MORN
Tue	18	32/31:55W WIND LEMPH GUST 14 MPH, PRECIP. 0.05" (MORNE WOON)
Wed	19	33:46: SOUTH WIND SMPH/GUST 19MPH, PRECIP. 0.68" (SCATTERED
Thu	20	33/40; SSW WIND COMPH/GUST 15MPH, PRECIP. 10:35" (MORN-NOON)
Fri	21	31º44°, NE WIND IMPH (GUST 7MPH, PRECIP (D.DZ" (MORN)
Sat	22	38°47°; SSW WIND AMPHIGUST 15MPA, PRECIP. W.11" (SCATTERED)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:	12/24/2012	SIGNED:
H&S OFFICER: DATE:	12/24/12	SIGNED:



# STACK HILL

Weekly Site Inspection Report No. SH 2012- 12/6

Week of: 121/6-12122, 2012 Inspector: Harry Staughter
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION		VER.	<b>A</b> L	NE	EED	COMMENTS/OBSERVATIONS
AREA	CONDITION			REP	AIR?	COMMENTS/ODSERVATIONS
Streets:					1 / 35	
Villard St.	(G)	F	P	Y	(N)	
Court St.	<b>G</b> 2	F	P	Y	(Ñ)	
Commercial St.	<b>G</b> 7	F	P	Y	¿Ņ/	
Baltimore St.	/G	F	P	Y	N	
49 <sup>th</sup> St.	(G)	F	P	Y	(N)	
Tract A (private)	(G	F	P	Y	(Ñ)	
Lot #18 (private)	$\langle G \rangle$	F	P	Y	/Ñ/	
View Point:						
Parking Pad	(G)	F	P	Y	(N)	
Gravel Path	<b>G</b>	F	P	Y		
Display Boards	G	F	P	Y	(N	
Storm Drains Clean:						
Catch Basins	<b>©</b>	F	P	Y	$(\hat{N})$	Cleared Catch hasins
BMPs:						
Hydroseed	G	F	P	Y	(D)	
(Other)	<b>©</b>	F	P	Y	(10)	
Sidewalks:						
Damage	SG <sup>2</sup>	F	P	Y	(N)	
Weeds	G	F	P	Y	W	
Signage:						
Perimeter "Advisory"	G	F	P	Y	EN)	
No Trespass (Tunnel Hillside)	(G)	F	P	Y	N	
Dust:						
Excavation Areas	<b>G</b>	F	P	Y	(N)	
Fencing:						
4' Site Perimeter	(G)	F	P	Y	N	
6' Temp. Panels	(G)	F	P	Y	(1)	
Street Lights:	(9)		1	1	الله الله	
Condition	Ĝ	F	P	Y	(N)	
	9	1	1		TUV-	
Site Markers:  Lot Numbers	G	F	P	Y	(N)	
Utilities		F	P	Y	N	
Survey Stakes	(G) /G	$\frac{\mathbf{F}}{\mathbf{F}}$	P	Y	N	
	(4)	Г	F	I	1 (1)	
Retaining Walls:		F	P	Y	$\widehat{N}$	
Baltimore Lots 22/23/24	(C)	F	P	Y	<del>                                      </del>	
LUIS 22/23/24	(G)	L.	P	Y	(N/	<u> </u>

## **STACK HILL** - Weekly Site Inspection Report No. SH 2012- 1216 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

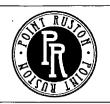
Misc. notes:
light post down on Villard St.
,
Reset Barricodes on Baltimore
Cleared Catch basins on Villard & Raltimore
certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:  $\sqrt{2-21-12}$ 

SIGNED: Hay & Stars

H&S OFFICER: DATE: 12/24/12

SIGNED



Weekly Site Inspection Report No. STR 2012- 1216

Week of: 12 1/6 - 12 122, 2012 Inspector: Harry Sweet Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERA CONDIT	AL .	NE	EED AIR?	COMMENTS/OBSERVATIONS
Streets: Surface Paint Splitter Islands	Good Fair G F  G F	Poor P P P	Yes Y Y	N N N	
Barricades	G F	P	Y	(N)	
Signage: Trespass Advisory Traffic Marketing	Good Fair  G F  G F  G F  G F	Poor P P P	Yes Y Y Y Y	* \(\frac{1}{2}\)	
Street Lights: Ruston Way 51 <sup>st</sup> Street Baltimore Yacht Club Junction Boxes	Good Fair G F G F G F G F	Poor P P P P	Yes Y Y Y Y Y Y		
Storm Drains: Curb/Gutter CBs Filterras	Good Fair G F G F	Poor P P	Yes Y Y	No XX	
Sidewalks: Paint Crossings Bollards	Good Fair G F G F	Poor P P P	Yes Y Y Y	×0 (X) (X)	
Landscaping: Trees Plants Sprinkler Bark/Mulch	Good Fair  G F  G F  G F	Poor P P P	Yes Y Y Y Y	\$\frac{1}{2}\frac{1}\frac{1}{2}\f	
Roundabouts: Grand Yacht Club	Good Fair  G F  G F	Poor P	Yes Y Y	× <sub>0</sub>	
<b>Features:</b> Wall/Rail Development Sign	Good Fair G F	Poor P P	Yes Y Y	No. SN (N)	

# STREETS - Weekly Site Inspection Report No. STR 2012- 1216 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:	Good	Fair	Poor	Yes	No	
Cooling Pond – West	$\mathcal{G}^{(i)}$	F	P	Y	$\mathcal{N}$	Sprayed LD-40 in all locks
Cooling Pond – North	Ğ	F	P	Y	Ń	3
Lot #12	G	F	P	Y	(N)	
Lot #10 – West	$/\mathcal{G}$	F	P	Y	(N)	
Lot #10 – North	$\mathcal{G}$	F	P	Y	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
BNSF – A	G	F	P	Y	K	
OSW02	G'	F	P	Y	/N	
Grand – East	$\mathbf{G}^{(i)}$	F	P	Y	<b>X</b>	
Grand – West	Ģ	F	P	Y	(N)	
Cascade	G <sup>(</sup>	F	P	Y	$\widehat{N}$	
Yacht Club - North	Ğ	F	P	Y	CŇ	
Yacht Club - South	(Ġ)	F	P	Y	$\langle \mathcal{N} \rangle$	

Other:	Good	Fair	Poor	Yes	No
Roundabouts	(G)	F	P	(Pok	$\mathbb{N}$
Jersey Barriers	G	F	P	Y	N
Baltimore Bridge	Ĝ	F	P	Y	(N)

Misc. notes	es:
Reget	barricades en Grand Ave Tourdahart.
)	
_	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:

12-21-2012

SIGNED:

ED. Hours V. Sour

REVIEWED: DATE:

12/24/12

SIGNED:

2



#### TEMPORARY IMPERMEABLE CAP

Weekly Site Inspection Report No. TIC 2012- 1216

Week of: 12 1/6 - 12 1 22, 2012 Inspector: PAT WILGER Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	CLEAN?	NEED REPAIR?	COMMENTS/OBSERVATIONS
Area A Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P	Y N Y N Y N Y N Y N Y N	Y N Y N Y N Y N	
Area B Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P G F P G F P	Y N Y N Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N Y N	
Area C Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P	Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N Y N	Slight Striding water
Area D Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P	Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N	Sowe standary water-
Area E Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P G F P	Y N Y N Y N Ý N	Y N Y N Y N Y N Y N Y N	Some standary wohr
Area F Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P	Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N	water pumped I see G from
Area G Geomembrane Gravel Cover Edge Anchorage Drainage	G F P G F P G F P G F P G F P	Y N Y N Y N Y N Y N	Y N Y N Y N Y N Y N	woder in collection there's purposed to I sumper

#### TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2012- /2/6 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

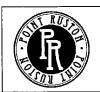
INSPECTION AREA		VERA NDIT		CLEAN?		NEED REPAIR?		COMMENTS/OBSERVATIONS
Area H								
Geomembrane	/G	F	P	Y	N	Y	,N	
Gravel Cover	G	F	P	Y	N	Y	/N	
Edge Anchorage	G/	F	P	Y	N	Y	N/	I may no bod course & char exposed
Drainage	Q'	F	P	Y	N	Y	N/	Confuture cover Hodge exposed
	G	F	P	<b>(Y</b> )	N	Y	Ŋ	
Area I								
Geomembrane	G	F	P	<b>'Y</b>	N	Y	N	
Gravel Cover	G	F	P	/Y	N	Y	/N/	
Edge Anchorage	G	F	P	Y	N	Y	N	liner coor left goes in SE area
Drainage	G /	F	P	Y,	N	Y	N	liner coor left open in SE area Summanea fina wolld continoi
	\G/	F	P	Ý	N	Y	\/N	
Area J								
Geomembrane	G	F	P	Y	N	Y	N	
Gravel Cover	G	F	P	Y	N	Y	N	
Edge Anchorage	G	F	P	Y	N	Y	N	
Drainage	G	F	P	Y	N	Y	Ŋ	
	(Ĝ	F	P	(Y)	N	Y	(N)	

Misc. notes:	

INSPECTOR: DATE:

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

 $\frac{2/26//2}{2\sqrt{27/12}}$  SIGNED: 2 REVIEWED: DATE:



### WATERWALK

Weekly Site Inspection Report No. WW 2012- 1216

Week of: 12/16 - 12/22, 2012 Inspector: TIM Rusher Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OV	ERA DITI	L	NE	ED AIR?	COMMENTS/OBSERVATIONS
Paths:	Good	Fair	Poor	Yes	No	
Asphalt	(G)	F	P	Y	N	
Gravel	G	F	P	Y	(N)	
Signage:	Good	Fair	Poor	Yes	No	
Trespass	(G)	F	P	Y		
Advisory	6	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
Street Lights:	Good	Fair	Poor	Yes	No C	
Junction Boxes	(G)	F	P	Y	(Ř)	
Poles	(G)	F	P	Y	(M)	
Bulbs	6	F	P	Y	(Z)	ONLY PHANE 1 MISTERS OF
Banners	G	F	P	Y	N	ONLY PHASE 1 INSTALLED
Storm Drains:	Good	Fair	Poor	Yes	No	
Area Drains	(G)	F	P	Y	N	
Clean Outs	6	F	P	Y	N	
Octopus:	Good	Fair	Роог	Yes	No	-
Tile	(G)	F	P	Y	(N)	
Grout	Q	F	P	Y	W	
Paint	G	F	P	Y	<b>E</b>	
Intersection #1:	Good	Fair	Poor	Yes	No	
Tile	6	F	P	Y	(Z	
Grout	(G)	F	P	Y	(N)	
Paint	6	F	P	Y	N)	
Intersection #2:	Good	Fair	Роог	Yes	No	IN PROGRESS
Tile	(G)	F	P	Y	(N)	
Grout	0	F	P	Y	<b>E</b>	
Paint	G	F	P	Y	(N)	
Intersection #3:	Good	Fair	Poor	Yes	No	IN PROGRESS
Tile	(G)	F	P	Y	(Z)	
Grout		F	P	Y	(N)	
Paint	(G)	F	P	Y	$\overline{N}$	
Intersection #4:	Good	Fair	Poor	Yes	No	PENDING
Tile	G	F	P	Y	N	
Grout	G	F	P	Y	N	
Paint	G	F	P	Y	N	
Sprinkler:	Good	Fair	Poor	Yes	No	
Heads	<b>©</b>	F	P	Y		
Valve Boxes	6	F	P	Y	(D)	

#### **STREETS** - Weekly Site Inspection Report No.

# ETS - Weekly Site Inspection Report No. WW 2012- 1216 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Trees	Landscaping:	Good	Fair	Poor	Yes	No	
Plants   Sprinkler   Sprink	Trees		F	P	Y		
Bark/Mulch	Plants	6	F	P	Y		
Hardware:   Good   Fair   Poor   Yes   No   PCNYING	Sprinkler	(G)	F	P	Y	(1)	
Cleat Benches	Bark/Mulch	(G)	F	P	Y		
Cleat Benches	Hardware:	Good	Fair	Poor	Yes	No	PENNING
Trash Cans	Cleat Benches	G	F	P	Y	N	
Gates:   Good   Fair   Poor   Yes   No	Tables	G	F	P	Y	N	
Ferry - South   G   F   P   Y   N   Pending	Trash Cans	G	F	P	Y	N	·
TIC - I/H   G   F   P   Y   N   PENDING	Gates:	Good	Fair	Poor	Yes	No	· · · · · · · · · · · · · · · · · · ·
TIC - I/H	Ferry – South	-G	F	P	Y	(N)	
Intersection #1	•			<del></del>			PEUNING
Intersection #2	Intersection #1		-		Y		
Intersection #3   G   F   P   Y   N	Intersection #2		<del> </del>	<del> </del>			
Grand Plaza   G   F   P   Y   N	Intersection #3			<del>                                     </del>			
Intersection #4   G   F   P   Y   N	Grand Plaza	G		P	Y	N	
Peninsula - North   G   F   P   Y   N	Intersection #4	_	<b></b>	P	Y	N	W.
Lights       G       F       P       Y       N         Concrete       G       F       P       Y       N         Rails       G       F       P       Y       N       Fence Net Net Net Net Net Net Net Net Net Ne	Peninsula - North	-	F	P	Y	N	V
Lights       G       F       P       Y       N         Concrete       G       F       P       Y       N         Rails       G       F       P       Y       N       Fence Net Net Net Net Net Net Net Net Net Ne	Grand Plaza	Good	Fair	Poor	Yes	No.	
Concrete   G   F   P   Y   N			<b> </b>	<del> </del>		$\perp$	
Big Toy:         Good         Fair         Poor         Yes         No           Block Wall         G F P Y Sb         F P Y Sb         F P Y Sb           Chips         G F P Y Sb         F P Y Sb         F P Y Sb           Other:         G Good         Fair         Poor         Yes         No           Coyotes         G F P Y N Sb         F P Y Sb         F P Y Sb         F P Y Sb           Tide Pool         G F P Y N Sb         F P Y Sb         F P Y Sb         F P Y Sb		(3)		<del>                                     </del>			
Big Toy:         Good         Fair         Poor         Yes         No           Block Wall         G         F         P         Y         No           Swings         G         F         P         Y         No           Chips         G         F         P         Y         No           Other:         Good         Fair         Poor         Yes         No           Coyotes         G         F         P         Y         No           Tide Pool         G         F         P         Y         No						<b>34</b> )	FENCE NETHLED ON GW SIDE (TOP
Block Wall         G         F         P         Y         SS           Swings         G         F         P         Y         N           Chips         G         F         P         Y         N    Other:  Coyotes  Coyotes  Tide Pool  G  F  P  Y  N  N  No  No  No  No  No  No  No  N	Pig Toy	Good	Fair	Poor	Ves	No	
Swings         G         F         P         Y         N           Chips         Good         Fair         Poor         Yes         No           Coyotes         G         F         P         Y         N           Tide Pool         G         F         P         Y         N	• •			<del> </del>			
Chips         Good         Fair         Poor         Yes         No           Coyotes         GOOD         Fair         Poor         Yes         No           Coyotes         GOOD         F         P         Y         NO           Tide Pool         GOOD         F         P         Y         NO			<del></del>	<del>                                     </del>			
Other:         Good         Fair         Poor         Yes         No           Coyotes         G         F         P         Y         N           Tide Pool         G         F         P         Y         N	J	6		+			
Coyotes G F P Y N Tide Pool G F P Y N			1	I _	· 	1	
Tide Pool G F P Y N		<del></del>	-	<del></del>		+	
	-			† — —		<del> </del>	
Misc. notes:	i ide Pooi	16	F	P	Y		
	Misc. notes:						
				•			
			<del>-</del> -				
				-			
certify that this report is true, accurate and complete, to the best of my knowledge and belief.	certify that this report is tr	ue, accur	ate and	l compl	ete, to t	he best o	of my knowledge and belief.
ISPECTOR: DATE: $12/24/12$ SIGNED:	ISPECTOR: DATE:		12/2	241	1/2	S	SIGNED:
			/	/			
EVIEWED: DATE: $\frac{12/24/12}{24/12}$ SIGNED:	FVIEWED DATE		12/	1 10 U 1	/12		SIGNED:



#### **GENERAL SITE**

Weekly Site Inspection Report No. GEN 2012-1223

Week of: 12 / 23 - 12 / 29, 2012 Inspector: Tim Ryaner

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

			_		na Smeiter Site (Point Ruston)					
INSPECTION AREA	OVERA CONDITI			EED AIR?	COMMENTS/OBSERVATIONS					
Gates:					(See "Streets" Report for additional gates)					
Slag Peninsula	(G) F	P	Y	(N)	(See Streets Hepote for additional Bures)					
52 <sup>nd</sup> Street	G F	P	Y	(N)						
54 <sup>th</sup> Street (electric)	(G) F	P	Y	N						
	(0)	T	1	1						
Signage:			37	( <b>)</b> ( )						
Gates	G F	P	Y	(N)						
Perimeter	G F	P	Y							
Safety	G F	P	Y	N						
Security:										
Locks	(G) F	P	Y	(N)						
Alarms	(G) F	P	Y	B						
Cameras	G F	P	Y	$(\tilde{N})$						
BMPs:										
Silt Fence	G F	P	Y	(Ŋ)						
Waddles	(G) F	P	Y	BB.						
Nursery:			<u> </u>							
Plants	(G) F	P	Y	(N)						
Sprinkler	G F	P	Y							
Weeds	G F G F G F	P	Y	(N)						
		1	1							
Stockpiles:		D .	V	(M)						
Envirotac II	G F	P	Y							
Plastic	G F	P	Y	(N)						
Packed	G F	P	Y	(M)						
Grass	G F	P	Y	(N)						
Dust:										
Traffic areas	G F	P	Y	Z	WET!					
Excavation area	(G) F	P	Y	$(N_{\beta})$	WFT!					
Fencing:										
Site Perimeter	(G) F	P	Y	(N)						
Zone Separation	G F G F	P	Y	(N)	ONGOING MAINTENANCE					
CRZs:										
Area D	G F	P	Y	N)						
(Other)	GF	P	Y	N						
	O L	1	<del>                                     </del>	TA						
Haul Roads: Main Street		D	37	/N/						
	G F	P	Y	(N)						
Grand Ave. OCF road	G F	P	Y	(N)						
	(G) F	P	Y	(N)						
Metr.Pks-Peninsula	(G) F	P	Y	(N)						

# GENERAL SITE - Weekly Site Inspection Report No. GEN 2012-1223 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc.	note	s:			
	·				
ir Mo	nitor	ing.			
Day of			Personal QTY	Portable QTY	Air Monitoring Notes
Sun	23	Ø	$\emptyset$	$\emptyset$	NO RA ACTIVITY
Mon	24	$\emptyset$	$\emptyset$	Ø	NO RA ACTIVITY
Tue	25	ψ	Ø	$\emptyset$	NO RA ACTIVITY
Wed	26	3	$\bigcirc$	0	T.I.C-F(STORMDRMN)
Thu	27	શ	0		T.I.C. F (STORM DRAIN) / WATERWALK (TOPSOIL)
Fri	28	S	$\mathcal{D}$	0	T.I.C.F (LINER PRED)
Sat	29	$\mathcal{D}$		0	NO RA ACTIVITY
/EAT	HER				
Day of	Week	(LOW/H	(IGH)		Summary of Weather Conditions
Sun	23	37.4	3;35	w l	VIND SMPH GUST 9MPH, + RECID (1.26" (SCATTERED)
Mon	24	37.4	1;55	w	NIND SMAH GOST YMPH, TRECIP O.DI" (EVE)
Tue	25	30/2	11°;N	<u> </u>	JIND IMPHIGUST 5MPH, MRECIP. 1859" (SCATTERED)
Wed	26	37.4	<u>4°;e</u>	<u>l</u> <u>w</u>	WIND 5MPH (JUST 12MPH, HRECIP 0.15" (SCATTERED)
Thu	27	31.4	5;99	w l	WIND SMAH GUST 1/MPH, HRECIP. P.DI" (EARLY MORNIN)
Fri	28	19.12	5;30	لاب	VIND IMPHIGUST COMPH, NO PRECIPITATION
Sat	29	374	5;55	E N	IND . 2MPHIGIST ZMPH, PRECIP. ID. DA" AFTERNOW &
certify	y that	this re	port is	true, a	ccurate and complete, to the best of my knowledge and belief.
INSP	ECTO	OR: D	ATE:		12/31/2012 SIGNED:
100	`\	י מרוני	- V (II)		12 /- AL SIGNED
i&S (	)FFI(	CER: I	DATE:	:	12/31/12 SIGNED: 11/14



### STACK HILL

Weekly Site Inspection Report No. SH 2012- 1223

Week of: 123-12129, 2012 Inspector: Harry Slaught Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION OVERAL NEED **COMMENTS/OBSERVATIONS AREA CONDITION** REPAIR? Streets: P  $\langle G \rangle$ F Y Ń Villard St. (G) F P (V Y Court St. **(**G) F P  $\overline{\mathbf{Y}}$ NCommercial St. F P Y (G) $\widehat{\mathbf{W}}$ Baltimore St. 49<sup>th</sup> St. (G) F P N Y Tract A (private) **G** F P Y (N/ Lot #18 (private) F P (N)(G)View Point:  $\mathbf{G}$ F P Y (N) Parking Pad Gravel Path **G**) F P Y Ň Display Boards F P Y N Storm Drains Clean: (G) Catch Basins F P Y N **BMPs**: (N) Hydroseed (Ġ) F P Y (N) (Other) (G) F P Sidewalks: P Damage F Y (D) V Weeds F P Signage: F P Y (G)  $\langle N \rangle$ Perimeter "Advisory" (G) No Trespass (Tunnel Hillside) F P Y  $\langle \mathcal{M} \rangle$ **Dust: Excavation Areas** (G) N F P Y Fencing: 4' Site Perimeter  $G_{\sim}$ F P Y  $(N_{\underline{}})$ (N. 6' Temp. Panels (G F P **Street Lights:** Condition  $\langle G \rangle$ F P Y  $\langle N \rangle$ Site Markers: F P Y ĠŹ Ŋ. Lot Numbers Utilities (G) F P Y ÓN G  $\overline{\mathbf{Y}}$ Survey Stakes F P N **Retaining Walls:** F P **Baltimore ©** Y M. Lots 22/23/24 **(G)** F P Ń

#### STACK HILL - Weekly Site Inspection Report No. SH 2012- 1223 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Misc. not										
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certify tha	t this repo	rt is true, acc	curate an	nd comple	ete, to the	best of r	ny knowi	ledge and	l belief.	
		10 15 11 40, 400						- 1	. S	

INSPECTOR:

DATE: 12-28-2012

H&S OFFICER: DATE:

SIGNED:



Weekly Site Inspection Report No. STR 2012- ) 2 2 3

Week of: 12 123 - 12 129, 2012 Inspector: Marry Shught Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS
Streets: Surface Paint Splitter Islands Barricades	Good Fair Poor  G F P  G F P  G F P  G F P	Yes No Y (N) Y (N) Y (N) Y (N) Y (N)	
Signage: Trespass Advisory Traffic Marketing	Good         Fair         Poor           G         F         P           G         F         P           G         F         P           G         F         P           F         P	Yes No Y NO Y Y Y Y Y Y Y Y Y Y	
Street Lights: Ruston Way 51st Street Baltimore Yacht Club Junction Boxes	Good         Fair         Poor           G         F         P           G         F         P           G         F         P           G         F         P           G         F         P	Yes No Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	
Storm Drains: Curb/Gutter CBs Filterras	Good Fair Poor  G F P  G F P  G F P	Yes No Y Y Y Y Y Y Y	·
Sidewalks: Paint Crossings Bollards	Good Fair Poor	Yes No Y Y Y Y N	
Landscaping: Trees Plants Sprinkler Bark/Mulch	Good         Fair         Poor           G         F         P           F         P           F         P           F         P           F         P	Yes No Y N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	
Roundabouts: Grand Yacht Club	$ \begin{array}{c cccc} Good & Fair & Poor \\ \hline (G) & F & P \\ \hline (G) & F & P \\ \end{array} $	Yes No Y N	
Features: Wall/Rail Development Sign	Good         Fair         Poor           G         F         P           G         F         P	Yes No Y Y Y	

#### STREETS - Weekly Site Inspection Report No. STR 2012- 1223

#### Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Gates:	Good	Fair	Poor	Yes	No ,
Cooling Pond – West	/ <b>Q</b> /	F	P	Y	$N_1$
Cooling Pond – North	(G)	F	P	Y	N.
Lot #12	G	F	P	Y	N/
Lot #10 – West	Ģ	F	P	Y	Ŋ
Lot #10 – North	Ğ	F	P	Y	Ŋ
BNSF – A	Ğ	F	P	Y	Ń
OSW02	Ğ	F	P	Y	N),
Grand – East	Ğ	F	P	Y	Ŋ
Grand – West	(G)	F	P	Y	N <sub>2</sub>
Cascade	Ğ	F	P	Y	/Ŋ,
Yacht Club - North	Ģ	F	P	Y	N
Yacht Club - South	Ğ	F	P	Y	K

Other:	Good	Fair	Роог	Yes	No	
Roundabouts	(G)	F	P	Y	\$\mathbf{p}_1	
Jersey Barriers	(G)	F	P	Y	Ŋ	
Baltimore Bridge	G	F	P	Y	(D)	

Misc. notes:			
	 ·		
	 		•

I certify that this re-	port is true	accurate and	complete to	o the best	of my	knowledge a	nd belief.
recruity that this re-	port is true,	accurate and	complete, a	o the best	Ormy	Micage a	na benen.

INSPECTOR: DATE:

**REVIEWED: DATE:** 

SIGNED:



#### **TEMPORARY IMPERMEABLE CAP**

Weekly Site Inspection Report No. TIC 2012-1223

Week of: 12 123 - 12 129 , 2012 Inspector: TIM RUSHER

Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA		ERA DIT	AL ION	CLI	EAN?		ED AIR?	COMMENTS/OBSERVATIONS
Area A Geomembrane Sand Bag Cover	Good	Fair	Poor	Yes	No	Yes	No	N/A BARGE WASTE SOLES
Edge Anchorage Drainage	V						~	BARLE WASTE SOILS
Area B Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good	Fair	Poor	Yes	No	Yes	No	N/A GRASS COVER N/A
Area C Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good	Fair	Poor	Yes	No	Yes	No	BARIE WASTE SOILS W/VEGETATION N/A
Area D Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good	Fair	Poor	Yes	No	Yes	No	BARE WASTE Souls Waparese VEGETATION
Area E Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good	Fair	Poor	Yes	No	Yes	No	BARE WASTE SOILS W/VEGETATION W/A
Area F Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good	Fair	Poor	Yes	No	Yes	No	STORM DRAW + GRADING PROPOSITION PENNING  N/A  N/A  PUMPING TO (6)
Area G Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good	Fair	Poor	Yes	No	Yes	No	N/A BARE WASTESOILS WSPARSE VEGETAME N/A PUMPING TO (I) PIT

## TEMPORARY CAP - Weekly Site Inspection Report No. TIC 2012-1223 Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OV CON	ER/	AL ION	CLE	AN?	NE REP	ED AIR?	COMMENTS/OBSERVATIONS
Area H Geomembrane	Good	Fair	Poor	Yes /2	No	Yes	No	PARTIAL METALLED (50%)
Sand Bag Cover Edge Anchorage Drainage	7						/	
Area I Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good  V	Fair	Poor	Yes	No	Yes	No V	75 % INSTALISO
Area J Geomembrane Sand Bag Cover Edge Anchorage Drainage	Good	Fair	Poor	Yes	No	Yes	No	PENDING

Misc. notes:	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

INSPECTOR: DATE:	1/3/13	SIGNED:
	1 /	
REVIEWED: DATE:	1/3/13	SIGNED!



#### WATERWALK

#### Weekly Site Inspection Report No. WW 2012-1223

Week of: 12 123 - 12 129 , 2012 Inspector: Tim Rusher Operable Unit 02 - Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	CO	VERA NDIT check o	AL ION	NE REP	ED AIR? CK ONE)	COMMENTS/OBSERVATIONS
Paths:	Good	Fair	Poor	Yes	No	
Asphalt	$\checkmark$				V	
Gravel	V				<b>V</b>	
Signage:	Good	Fair	Poor	Yes	No	PHASE 1 POSTED TO NWOF FEERY
Trespass	<b>V</b>	-			V	
Advisory	~				<b>V</b>	
(Other)						
Street Lights:	Good	Fair	Poor	Yes	No	
Junction Boxes	<b>√</b>				V	
Poles	$\checkmark$					INSTALLED PAST FERRY
Bulbs						ENSTALLED PAST FERRY FIXTURES INSTALLODIN PHASE 1 ONLY N/A
Banners	<u> </u>			<del>-</del>		N/A
Storm Drains:	Good	Fair	Poor	Yes	No	
Area Drains	1				/	
Clean Outs	$\sqrt{}$				<b>V</b>	
Octopus:	Good	Fair	Poor	Yes	No	
Tile	7				~	
Grout	~				~	
Paint	V					
Intersection #1:	Good	Fair	Poor	Yes	No	MONEO TENT FR. #3 TO #1
Tile					V	
Grout	<b>√</b>				<b>/</b>	
Paint	$\checkmark$				<b>'</b>	
Intersection #2:	Good	Fair	Poor	Yes	No	WORK IN PROGRESS (TENT)
Tile	<b>V</b>				<b>/</b>	
Grout	V				<b>V</b>	
Paint	<b>✓</b>				<b>'</b>	
Intersection #3:	Good	Fair	Poor	Yes	No	
Tile	<b>\</b>					
Grout	/				<b>V</b>	
Paint						
Intersection #4:	Good	Fair	Poor	Yes	No	
Tile						PENDING
Grout						
Paint						
Sprinkler:	Good	Fair	Poor	Yes	No	
Heads	<b>V</b>				~	
Valve Boxes	~					

#### **STREETS** - Weekly Site Inspection Report No.

#### WW 2012-1223

#### Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

Landscaping:	Good	Fair	Роог	Yes	No	WORKING FROM 5 TO N.
Trees	✓				/	
Plants	V				✓	
Sprinkler	<b>/</b>				<b>✓</b>	
Bark/Mulch	$\sqrt{}$				/	
Hardware:	Good	Fair	Poor	Yes	No	PENDING
Cleat Benches						
Tables						
Trash Cans						
Gates:	Good	Fair	Poor	Yes	No	
Ferry – South						NETTS REACING FOR HIGHLIAMS
TIC – I/H	<b>—</b>				•	NEEDS BRACING FOR HIGH WINDS. PENDING
Intersection #1	-			<del></del> ;		1600100
Intersection #2					-	)
Intersection #3					-	<del></del>
Grand Plaza	-	-				/
Intersection #4		-	-		<del>                                     </del>	
Peninsula - North		<del>                                     </del>		<b></b> -		V
	1				\ <u>\</u>	
Grand Plaza:	Good	Fair	Poor	Yes	No	
Lights	<b>-</b>		-		<b>√</b>	CONFUITS ONLY
Concrete	<u> </u>				<u> </u>	
Rails	<b>↓</b> ✓				<b>√</b>	CONDUITS ONLY FENCE INSTALLED ON TOP
Big Toy:	Good	Fair	Poor	Yes	No	
Block Wall	<b>V</b>				V	
Swings	V				1/	
Chips	1/				1/	
Other:	Good	Fair	Poor	Yes	No	
Coyotes	~				V	
Tide Pool	V				/	
Coyotes	Good	Fair	Poor	Yes	V	
ertify that this report is tr	ue, accur	ate and	i compl	ete, to tl	he best (	of my knowledge and belief.
SPECTOR: DATE:		_//	<u>3//</u>	3	S	SIGNED:
EVIEWED: DATE:		//	3/1	3		SIGNED:

#### Monthly Report 199, December 2012 Operable Unit 02 Asarco Tacoma Smelter Site

#### **OUTFALL**

#### **MONITORING**

#### **DATA**

Reference	Date	Description
Table 1	December 2012	Summary of December 2012 Outfall Data for As, Cu, and Zn Compared to SOW Limit
Spectra	01/07/13	Spectra Laboratories Outfall Analysis Report for December Samples

Table 1. Summary of **December 2012** Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.000	0.00%	0.000	0.00%	0.000	0.00%
OSW2	0.039	7.70%	0.012	2.41%	0.004	0.73%
North Outfall	0.030	5.95%	0.021	4.10%	0.019	3.70%

<sup>\* 0.5</sup> ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

<sup>\*\*</sup> NOTE: Sampling has been suspended at the South Outfall due to lack of sample media. Sampling will resume when media is available.

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RECEIVED
JAN 1 1 2013
BY:

01/07/2013

**Point Ruston** 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Tacoma Smelter

Date Received:

12/31/2012

Spectra Project: 2012120629

Client ID	Spectra #	_Analyte_	Result	Units	Method	Matrix	Date Sampled
TSM1212410	1	Arsenic	0.030	mg/L	EPA 200.8	Water	12/10/2012
TSM1212410	1	Copper	0.021	mg/L	EPA 200.8	Water	12/10/2012
TSM1212410	1	Zinc	0.012	mg/L	EPA 200.8	Water	12/10/2012
TSM1212210	2	Arsenic	0.040	mg/L	EPA 200.8	Water	12/10/2012
TSM1212210	2	Соррег	0.015	mg/L	EPA 200.8	Water	12/10/2012
TSM1212210	2	Zinc	0.0035	mg/L	EPA 200.8	Water	12/10/2012
TSM1212417	3	Arsenic	0.030	mg/L	EPA 200.8	Water	12/17/2012
TSM1212417	3	Copper	0.017	mg/L	EPA 200.8	Water	12/17/2012
TSM1212417	3	Zinc	0.029	mg/L	EPA 200.8	Water	12/17/2012
TSM1212217	4	Arsenic	0.034	mg/L	EPA 200.8	Water	12/17/2012
TSM1212217	4	Copper	0.0091	mg/L	EPA 200.8	Water	12/17/2012
TSM1212217	4	Zinc	0.0034	mg/L	EPA 200.8	Water	12/17/2012
TSM1212424	5	Arsenic	0.032	mg/L	EPA 200.8	Water	12/24/2012
TSM1212424	5	Copper	0.029	mg/L	EPA 200.8	Water	12/24/2012
TSM1212424	5	Zinc	0.023	mg/L	EPA 200.8	Water	12/24/2012
TSM1212224	6	Arsenic	0.041	mg/L	EPA 200.8	Water	12/24/2012
TSM1212224	6	Copper	0.013	mg/L	EPA 200.8	Water	12/24/2012
TSM1212224	6	Zinc	0.0038	mg/L	EPA 200.8	Water	12/24/2012

SPEÇTRA/LABORATORIES

Steve Hibbs, Laboratory Manager

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01/07/2013

**Point Ruston** 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Tacoma Smelter

Date Received:

12/31/2012

Spectra Project: 2012120629

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
TSM121212431	7	Arsenic	0.027	mg/L	EPA 200.8	Water	12/31/2012
TSM121212431	7	Copper	0.015	mg/L	EPA 200.8	Water	12/31/2012
TSM121212431	7	Zinc	0.010	mg/L	EPA 200.8	Water	12/31/2012
TSM121212231	8	Arsenic	0.039	mg/L	EPA 200.8	Water	12/31/2012
TSM121212231	8	Copper	0.011	mg/L	EPA 200.8	Water	12/31/2012
TSM121212231	8	Zinc	0.0039	mg/L	EPA 200.8	Water	12/31/2012

SPECTRA MABORATORIES

Steve Hibbs, Laboratory Manager

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www.spectra-lab.com

January 7, 2013

**Point Ruston** 

5219 N. Shirley St.

Suite 100

Tacoma, WA 98407

Units:

Spectra Project:

ug/L

2012120629

Applies to Spectra #'s

1 thru 8

#### **QUALITY CONTROL RESULTS**

ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested:

1/7/2013

Date Analyzed:

1/7/2013

Element	CAS#	Blank Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested:

1/7/2013

Date Analyzed:

1/7/2013

	Spike	LCS	LCS	
Element	Added	Conc.	%Rec	
Arsenic	50.0	50.44	100.9	
Copper	50.0	52.81	105.6	
Zinc	50.0	50.67	101.3	

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested:

1/7/2013

Date Analyzed:

1/7/2013

Sample Spiked:

2013010082-1

	' Sample	Spike	MS	MS	MSD	MSD	
Element	Conc.	Conc.	Conc.	%Rec	Conc	%Rec	RPD
Arsenic	0.00	50.0	49.70	99.4	51.89	103.8	4.3
Copper	4.36	50.0	54.42	100.1	57.07	105.4	5.2
Zinc	64.11	50.0	112.20	96.2	117.90	107.6	11.2

Recovery Limits 70-130%

RPD Limit 20

SPECTRA LABORATORIES

Steven Q. Hibbs Laboratory Manager

Phone: 253-752-2185

POINT RUSTON
Fax: 253-752-7083

#### **CHAIN OF CUSTODY RECORD**

2012120629

PROJ. NO	PI	QJECT	T NAME	Dec	OTE	-, 11			7		$\overline{}$	7	7	7		
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	:05 }		TS	M1212	2210		1	X								
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	30 1		15	M121	12217		1	X								
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	5.45		15	M1217	1224		1	X								
12/31/12 NORTH 10		7	73	M121	2A31		}	X								
12/31/2 USW210			TO	SM121	2231	_	1	X								
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Relinquished (Signature)	<u> </u>	<u>. 10</u> 7 1		Date/Time		Received for	r Labor	atory b	y: (Sigi	nature)		ate/Tir		Enclo	osed: Parameter List with DTLs Cover Letter	
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#### Monthly Report 199, December 2012 Operable Unit 02 Asarco Tacoma Smelter Site

#### **PERIMETER**

#### **AIR**

#### **MONITORING**

#### **DATA**

### (HIGH VOLUME)

Reference	Date	Description
Hi-Vol	11/26 – 12/28	Spectra Laboratories Analysis Reports for As-Pb
Hi-Vol	11/26 – 12/28	IML Air Science
H1-V01 11/26 - 12/2		Particulate Network Summary Reports for TSP-As-Pb

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RECEIVED
DEC 2 4 2012
BY:

12/18/2012

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

12/03/2012

Spectra Project: 2012120037

Client ID	Spectra #	Analyte	Result	Units	Method	<u>Matrix</u>	Date Sampled
514088	1	Arsenic	0.0067	μg/m3	SW846 6020A	Filter	11/26/2012
514088	1	Lead	0.0066	μg/m3	SW846 6020A	Filter	11/26/2012
514089	2	Arsenic	0.0042	μg/m3	SW846 6020A	Filter	11/26/2012
514089	2	Lead	0.0076	μg/m3	SW846 6020A	Filter	11/26/2012
514091	3	Arsenic	0.0070	μg/m3	SW846 6020A	Filter	11/27/2012
514091	3	Lead	0.018	μg/m3	SW846 6020A	Filter	11/27/2012
514092	4	Arsenic	0.0076	μg/m3	SW846 6020A	Filter	11/27/2012
514092	4	Lead	0.025	μg/m3	SW846 6020A	Filter	11/27/2012
8599902	5	Arsenic	0.010	μg/m3	SW846 6020A	Filter	11/28/2012
8599902	5	Lead	0.017	μg/m3	SW846 6020A	Filter	11/28/2012
8599901	6	Arsenic	0.0098	μg/m3	SW846 6020A	Filter	11/28/2012
8599901	6	Lead	0.017	μg/m3	SW846 6020A	Filter	11/28/2012
8600200	7	Arsenic	0.032	μg/m3	SW846 6020A	Filter	11/29/2012
8600200	7	Lead	0.0060	μg/m3	SW846 6020A	Filter	11/29/2012
8600199	8	Arsenic	0.0041	μg/m3	SW846 6020A	Filter	11/29/2012
8600199	8	Lead	0.0075	μg/m3	SW846 6020A	Filter	11/29/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

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12/18/2012

**Point Ruston** 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received: Spectra Project: 2012120037

12/03/2012

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8600198	9	Arsenic	0.0011	μg/m3	SW846 6020A	Filter	11/30/2012
8600198	9	Lead	0.0037	μg/m3	SW846 6020A	Filter	11/30/2012
8600197	10	Arsenic	0.0011	μg/m3	SW846 6020A	Filter	11/30/2012
8600197	10	Lead	0.0035	μg/m3	SW846 6020A	Filter	11/30/2012
8600192	11	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	12/03/2012
8600192	11	Lead	< 0.00015	μg/m3	SW846 6020A	Filter	12/03/2012

**SPECTRA LABORATORIES** 

Steve Hibbs, Laboratory Manager a8/scj

Page 2 of 2

#### CHAIN OF CUSTODY RECORD

7016120077



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RECEIVED

JAN 02 2013

BY:

12/21/2012

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

12/10/2012

Spectra Project: 2012120221

							Date
Client ID	Spectra #	Analyte	Result	<u>Units</u>	_Method_	<u>Matrix</u>	Sampled
8600196	1	Arsenic	0.0015	μg/m3	SW846 6020A	Filter	12/03/2012
8600196	1	Lead	0.0028	μg/m3	SW846 6020A	Filter	12/03/2012
8600195	2	Arsenic	0.0017	μg/m3	SW846 6020A	Filter	12/03/2012
8600195	2	Lead	0.0037	μg/m3	SW846 6020A	Filter	12/03/2012
8600194	3	Arsenic	0.00067	μg/m3	SW846 6020A	Filter	12/04/2012
8600194	3	Lead	0.0043	μg/m3	SW846 6020A	Filter	12/04/2012
8600193	4	Arsenic	0.00067	μg/m3	SW846 6020A	Filter	12/04/2012
8600193	4	Lead	0.0024	μg/m3	SW846 6020A	Filter	12/04/2012
8600191	5	Arsenic	0.0022	μg/m3	SW846 6020A	Filter	12/05/2012
8600191	5	Lead	0.0037	μg/m3	SW846 6020A	Filter	12/05/2012
8600190	6	Arsenic	0.0029	μg/m3	SW846 6020A	Filter	12/05/2012
8600190	6	Lead	0.0046	μg/m3	SW846 6020A	Filter	12/05/2012
8600189	7	Arsenic	0.0019	μg/m3	SW846 6020A	Filter	12/06/2012
8600189	7	Lead	0.0041	μg/m3	SW846 6020A	Filter	12/06/2012
8600188	8	Arsenic	0.0021	μg/m3	SW846 6020A	Filter	12/06/2012
8600188	8	Lead	0.0020	μg/m3	SW846 6020A	Filter	12/06/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 2

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12/21/2012

**Point Ruston** 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received: Spectra Project: 2012120221

12/10/2012

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8600187	9	Arsenic	0.0013	μ <b>g</b> /m3	SW846 6020A	Filter	12/07/2012
8600187	9	Lead	0.0067	μg/m3	SW846 6020A	Filter	12/07/2012
8600186	10	Arsenic	0.00089	μg/m3	SW846 6020A	Filter	12/07/2012
8600186	10	Lead	0.0017	μg/m3	SW846 6020A	Filter	12/07/2012
8600182	11	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	12/10/2012
8600182	11	Lead	< 0.00015	μg/m3	SW846 6020A	Filter	12/10/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 2 of 2

#### CHAIN OF CUSTODY RECORD

2012120221



PROJECT NAME PROJ. NO OF CONTAINERS AIR MONITOUNG REMARKS COMP GRAB SAMPLE NUMBER TIME STA# DATE Ö 8600 196 OCF-V1 OCF-NW OCF. VI OU-NW 12/5/12 OCF-VI X 04-NW GCF-VI 12 OG-NW 12/7/12 OCF-VI X HIVOLUME SAMPLER LOG Shipped via; FedEx, UPS Relinquished (Signature) Received by: (Signature) Date/Time Spectra or Other 15:10 Air Bill # Received by: (Signature) Remarks Date/Time Rélinguished (Signature) Date/Time Received for Laboratory by: (Signature) Date/Time Enclosed: Relinquished (Signature) Parameter List with DTLs Cover Letter Split Samples: [Accepted [ ]Declined\_ Signature COC Form - 7/12

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RECEIVED

JAN 02 2013

12/21/2012

**Point Ruston** 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

12/17/2012

Spectra Project: 2012120404

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8600185	1	Arsenic	0.0017	μg/m3	SW846 6020A	Filter	12/10/2012
8600185	1	Lead	0.0034	μg/m3	SW846 6020A	Filter	12/10/2012
8600184	2	Arsenic	0.0017	μg/m3	SW846 6020A	Filter	12/10/2012
8600184	2	Lead	0.0043	μg/m3	SW846 6020A	Filter	12/10/2012
8600183	3	Arsenic	0.00052	μg/m3	SW846 6020A	Filter	12/11/2012
8600183	3	Lead	0.00030	μg/m3	SW846 6020A	Filter	12/11/2012
8600181	4	Arsenic	0.00082	μg/m3	SW846 6020A	Filter	12/11/2012
8600181	4	Lead	0.0047	μg/m3	SW846 6020A	Filter	12/11/2012
8600180	5	Arsenic	0.0036	μg/m3	SW846 6020A	Filter	12/12/2012
8600180	5	Lead	0.0058	μg/m3	SW846 6020A	Filter	12/12/2012
8600179	6	Arsenic	0.0027	μg/m3	SW846 6020A	Filter	12/12/2012
8600179	6	Lead	0.0068	μg/m3	SW846 6020A	Filter	12/12/2012
8600178	7	Arsenic	0.0020	μg/m3	SW846 6020A	Filter	12/13/2012
8600178	7	Lead	0.0051	μg/m3	SW846 6020A	Filter	12/13/2012
8600177	8	Arsenic	0.0022	μg/m3	SW846 6020A	Filter	12/13/2012
8600177	8	Lead	0.0080	μg/m3	SW846 6020A	Filter	12/13/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 2

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12/21/2012

**Point Ruston** 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received: Spectra Project: 2012120404

12/17/2012

Client ID	Spectra #	Analyte	Result	<u>Units</u>	Method	<u>Matrix</u>	Date Sampled
8600176	9	Arsenic	0.0060	μg/m3	SW846 6020A	Filter	12/14/2012
8600176	9	Lead	0.0051	μg/m3	SW846 6020A	Filter	12/14/2012
8600175	10	Arsenic	0.0062	μg/m3	SW846 6020A	Filter	12/14/2012
8600175	10	Lead	0.011	μg/m3	SW846 6020A	Filter	12/14/2012
8600174	11	Arsenic	0.00070	μg/m3	SW846 6020A	Filter	12/15/2012
8600174	11	Lead	0.0037	μg/m3	SW846 6020A	Filter	12/15/2012
8600173	12	Arsenic	0.00077	μg/m3	SW846 6020A	Filter	12/15/2012
8600173	12	Lead	0.0030	μg/m3	SW846 6020A	Filter	12/15/2012
8600168	13	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	12/15/2012
8600168	13	Lead	< 0.00015	μg/m3	SW846 6020A	Filter	12/15/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 2 of 2

#### **CHAIN OF CUSTODY RECORD**

STA#

ACF . U!

TIME

PROJ. NO

DATE

100

12/10/12 CXX-VI

PROJECT NAME

GRAB COMP

2012120404

SAMPLE NUMBER

8600185



REMARKS Р Ö Shipped via: FedEx, UPS or Other Nico Enclosed: Date/Time Parameter List with DTLs Cover Letter

12 OCF . UI 11/12 OCF AW 12/13/12 OCF-NIM 14/12 OCE-VI 12 OCF. N/4 IN OCF.VI 41-VOLUME SAMPLER LOG Received by: (Signature) Date/Time Relinquished (Signature) Received by: (Signature) Relinquished (Signature Received for Laboratory by: (Signature) Date/Time Relinquished (Signature) Split Samples: ]Accepted [ ]Declined\_ Signature COC Form - 7/12

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

01/07/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring

Date Received:

12/26/2012

Spectra Project: 2012120565

Client ID	Consistent M	A 1 4 -	Dogult	T.T., *4.	36.4.1		Date
Client ID	Spectra #	<u>Analyte</u>	Result	<u>Units</u>	Method	<u>Matrix</u>	Sampled
8600172	1	Arsenic	0.00097	μg/m3	SW846 6020A	Filter	12/17/2012
8600172	1	Lead	0.0055	μg/m3	SW846 6020A	Filter	12/17/2012
8600171	2	Arsenic	0.0030	μg/m3	SW846 6020A	Filter	12/17/2012
8600171	2	Lead	0.0046	μg/m3	SW846 6020A	Filter	12/17/2012
8600170	3	Arsenic	0.00077	μg/m3	SW846 6020A	Filter	12/18/2012
8600170	3	Lead	0.0015	μg/m3	SW846 6020A	Filter	12/18/2012
8600169	4	Arsenic	0.0010	μg/m3	SW846 6020A	Filter	12/18/2012
8600169	4	Lead	0.0017	μg/m3	SW846 6020A	Filter	12/18/2012
8600167	5	Arsenic	0.00076	μg/m3	SW846 6020A	Filter	12/19/2012
8600167	5	Lead	0.0027	μg/m3	SW846 6020A	Filter	12/19/2012
8600166	6	Arsenic	0.0010	μg/m3	SW846 6020A	Filter	12/19/2012
8600166	6	Lead	0.0077	μ <b>g/m</b> 3	SW846 6020A	Filter	12/19/2012
8600165	7	Arsenic	0.0031	μg/m3	SW846 6020A	Filter	12/20/2012
8600165	7	Lead	0.023	μ <b>g/m</b> 3	SW846 6020A	Filter	12/20/2012
8600164	8	Arsenic	0.0044	μg/m3	SW846 6020A	Filter	12/20/2012
8600164	8	Lead	0.015	μg/m3	SW846 6020A	Filter	12/20/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 2

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

01/07/2013

**Point Ruston** 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring

Date Received:

12/26/2012

Spectra Project: 2012120565

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8600163	9	Arsenic	0.0053	μg/m3	SW846 6020A	Filter	12/21/2012
8600163	9	Lead	0.012	μg/m3	SW846 6020A	Filter	12/21/2012
8600162	10	Arsenic	0.0053	μg/m3	SW846 6020A	Filter	12/21/2012
8600162	10	Lead	0.012	μg/m3	SW846 6020A	Filter	12/21/2012
8600157	11	Arsenic	< 0.00015	μg/m3	SW846 6020A	Filter	12/26/2012
8600157	11	Lead	0.00023	μg/m3	SW846 6020A	Filter	12/26/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 2 of 2

**CHAIN OF CUSTODY RECORD** 

2012120565



PROJ. NO	)		PRC	JECT	NAME (HIVOL)		<i>"</i>		7	/	$\overline{}$	7	$\overline{}$	/ / /
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SAMPLE	RS: (Signatu	re) /		-,			₹		Νľ	/	/			/ /
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12/11/12	OFVI		X		8660172		1	X						
	OCF NW		^		8600171		1	X		<u> </u>				
12/18/12	I		<u>مر</u>		8600170			乂	<u> </u>		ļ			
	GCF NW		1		8600169		1	X						
12/19/12	OCF VI		人		8600167	<del></del>		×		<u> </u>				
12/19/12	OCFNW		义		8600166		1	X				<u> </u>		
12/20/12	OCF VI		人		8600165			×			L			
	OCE NW	<u> </u>	1		8600164			×		<u> </u>				
12/21/12	OCF VI		人		8600163			X				ļ		<u> </u>
12/21/12	OCFNW		×		8600162		1	×						
12/24/12	Control		×		8600157		1	×		ļ			ļ	
12/26/12				-	HI VOLUME SAMPLER	Lo G								
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	ned ( <i>Signatu</i>				Date/Time	Fledeived by:	U				Rejn	arks		
Relinquis	hed ( <i>Signatu</i>	ire)			Date/Time	Received for	Labor	atory b	y: (Sigi	nature)	D	ate/Tir	ne	Enclosed:  Parameter List with DTLs
														Cover Letter
P. P	_ <u></u>										1 '	Sample		
COC Form	- 7/12				•						I lvcc	epied	[ ]Decli	Signature

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01/07/2013

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring (hi-vol)

Date Received:

12/31/2012

Spectra Project: 2012120630

Client ID	Spectra #	Analyte	Result	Units	Method	Matrix	Date Sampled
8600161	1	Arsenic	0.00059	μg/m3	SW846 6020A	Filter	12/26/2012
8600161	1	Lead	0.0019	μg/m3	SW846 6020A	Filter	12/26/2012
8600160	2	Arsenic	0.00084	μg/m3	SW846 6020A	Filter	12/26/2012
8600160	2	Lead	0.0023	μg/m3	SW846 6020A	Filter	12/26/2012
8600159	3	Arsenic	0.0031	μg/m3	SW846 6020A	Filter	12/27/2012
8600159	3	Lead	0.0060	μg/m3	SW846 6020A	Filter	12/27/2012
8600158	4	Arsenic	0.00021	μg/m3	SW846 6020A	Filter	12/27/2012
8600158	4	Lead	0.0037	μg/m3	SW846 6020A	Filter	12/27/2012
8600156	5	Arsenic	0.014	μg/m3	SW846 6020A	Filter	12/28/2012
8600156	5	Lead	0.0092	μg/m3	SW846 6020A	Filter	12/28/2012
8600155	6	Arsenic	0.011	μg/m3	SW846 6020A	Filter	12/28/2012
8600155	6	Lead	0.010	μg/m3	SW846 6020A	Filter	12/28/2012

**SPECTRA LABORATORIES** 

Steve Hibbs, Laboratory Manager a8/sej

POINT RUSTON
5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185
Fax: 253-752-7083

**CHAIN OF CUSTODY RECORD** 

2012120030

			4010100	<u> </u>											
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Anny		,	The	12	Ö S	/	w		· /					REMARKS	
DATE STA# TIME	COMP	GRAB	SAMPLE NUMBER		NO. OF	/5	Ž//								
12/26/12 OCF-VI	X		1010X0018		1	X									
12/26/12 WF-NW	X		81000160		1.	1									
1427/12 (CF-VI	X		86000159		١	X									
12/27/12/DCF-NW	×		91000158			X									
12/28/12/OCF-VI	×		2600156		1	X									
12/28/12 OCF. NU	X		8600155		_	X									
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Relinquished (Signature)			Date/Time	Received for	Labor	atory b	y: (Signa	iture)	Da	ite/Tim	ne i	Enclos		List with DTLs	
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COC Form - 7/12			·					ľ	i jacos	.hien [	]Declir	160		Signature	

## Point Ruston Particulate Network Summary - TSP November 26, 2012 thru November 30, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc. Commer
			grams	grams	grams	minutes	m <sup>3</sup>	m <sup>3</sup>	μg/m³	μg/m³
514087	South Gate	11/26/12	4.6018	4.6416	0.0398	1447	1863	1734	21	23
514090	South Gate	11/27/12	4.6033	4.6642	0.0609	1424	1783	1657	34	37
514093	South Gate	11/28/12	4.5985	4.6532	0.0547	1432	1783	1676	31	33
514094	South Gate	11/29/12	4.5941	4.6198	0.0257	1443	1807	1740	14	15
514095	South Gate	11/30/12	4.6024	4.6141	0.0117	1435	1787	1726	7	7

Point Ruston
Particulate Network Summary - As and Pb
November 26, 2012 thru November 30, 2012

				Annual Control of the	The state of the s			
Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
147			m³	μg/Filter	μg/m³ As	μg/Filter	μg/m³ Pb	
514087	South Gate	11/26/12	1734	5.69	0.003	6.65	0.003	
514090	South Gate	11/27/12	1657	8.08	0.004	20.3	0.012	
514093	South Gate	11/28/12	1676	6.82	0.004	13.2	0.007	
514094	South Gate	11/29/12	1740	4.58	0.002	5.10	0.002	
514095	South Gate	11/30/12	1726	<2.00	<0.001	<2.00	<0.001	

Point Ruston
Particulate Network Summary - TSP
December 03, 2012 thru December 07, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc. Comments
			grams	grams	grams	minutes	m <sup>3</sup>	m <sup>3</sup>	μg/m³	μg/m³
514096	South Gate	12/03/12	4.5994	4.6109	0.0115	1444	1829	1732	6	7
514097	South Gate	12/04/12	4.6129	4.6312	0.0183	1424	1843	1761	10	10
514098	South Gate	12/05/12	4.6015	4.6213	0.0198	1430	1852	1725	11	11
514099	South Gate	12/06/12	4.6142	4.6260	0.0118	1454	1872	1744	6	7
514100	South Gate	12/07/12	4.6046	4.6239	0.0193	1428	1859	1736	10	11

Point Ruston
Particulate Network Summary - As and Pb
December 03, 2012 thru December 07, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m <sup>3</sup>	µg/Filter	μg/m³ As	µg/Filter	μg/m³ Pb	
514096	South Gate	12/03/12	1732	<2.00	<0.001	2.30	0.001	
514097	South Gate	12/04/12	1761	<2.00	<0.001	<2.00	<0.001	
514098	South Gate	12/05/12	1725	<2.00	<0.001	<2.00	<0.001	
514099	South Gate	12/06/12	1744	<2.00	<0.001	<2.00	<0.001	
514100	South Gate	12/07/12	1736	<2.00	<0.001	<2.00	<0.001	

## Point Ruston Particulate Network Summary - TSP December 10, 2012 thru December 15, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc. Comments	
			grams	grams	grams	minutes	m <sup>3</sup>	m <sup>3</sup>	μg/m³	μg/m³	60000
514101	South Gate	12/10/12	4.6044	4.6199	0.0155	1193	1562	1442	10	11	
514102	South Gate	12/11/12	4.5995	4.6077	0.0082	1424	1843	1741	4	5	
514103	South Gate	12/12/12	4.6053	4.6254	0.0201	1147	1485	1396	14	14	
514104	South Gate	12/13/12	4.5974	4.6119	0.0145	1272	1683	1572	9	9	
514105	South Gate	12/14/12	4.5905	4.6145	0.0240	1430	1882	1814	13	13	
514106	South Gate	12/15/12	4.6038	4.6122	0.0084	1435	1878	1761	4	5	

Point Ruston
Particulate Network Summary - As and Pb
December 10, 2012 thru December 15, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m <sup>3</sup>	µg/Filter	μg/m³ As	µg/Filter	μg/m³ Pb	
514101	South Gate	12/10/12	1442	<2.00	<0.001	2.78	0.001	
514102	South Gate	12/11/12	1741	<2.00	<0.001	2.55	0.001	
514103	South Gate	12/12/12	1396	3.33	0.002	5.94	0.004	
514104	South Gate	12/13/12	1572	5.19	0.003	6.81	0.004	
514105	South Gate	12/14/12	1814	10.9	0.006	8.19	0.004	
514106	South Gate	12/15/12	1761	<2.00	<0.001	<2.00	<0.001	

## Point Ruston Particulate Network Summary - TSP December 17, 2012 thru December 21, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
	· · · · · · · · · · · · · · · · · · ·		grams	grams	grams	minutes	m <sup>3</sup>	m <sup>3</sup>	μg/m³	μg/m³	Section of the sectio
514107	South Gate	12/17/12	4.6087	4.6211	0.0124	1412	1868	1781	7	7	
514108	South Gate	12/18/12	4.5909	4.5990	0.0081	1434	1887	1752	4	5	
514109	South Gate	12/19/12	4.4117	4.4197	0.0080	1439	1853	1744	4	5	
514110	South Gate	12/20/12	4.4011	4.4234	0.0223	1436	1879	1777	12	13	
514111	South Gate	12/21/12	4.3991	4.4412	0.0421	1435	1858	1742	23	24	

Point Ruston
Particulate Network Summary - As and Pb
December 17, 2012 thru December 21, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m³	μg/Filter	μg/m³ As	μg/Filter	μg/m³ Pb	
514107	South Gate	12/17/12	1781	<2.00	<0.001	<2.00	<0.001	
514108	South Gate	12/18/12	1752	<2.00	<0.001	2.54	0.001	
514109	South Gate	12/19/12	1744	<2.00	<0.001	<2.00	<0.001	
514110	South Gate	12/20/12	1777	3.85	0.002	4.19	0.002	
514111	South Gate	12/21/12	1742	5.24	0.003	10.1	0.005	

## Point Ruston Particulate Network Summary - TSP December 26, 2012 thru December 28, 2012

Filter ID	Sampler ID	Runday	Tare Mass	Exposed Mass	Net Mass	Run Time	Std. Volume	Act. Volume	Std. Conc.	Act. Conc.	Comments
			grams	grams	grams	minutes	m <sup>3</sup>	m <sup>3</sup>	µg/m³	μg/m³	distribution of the second of
514112	South Gate	12/26/12	4.3932	4.4007	0.0075	1439	1893	1774	4	4	
514113	South Gate	12/27/12	4.4268	4.4491	0.0223	1432	1885	1765	12	13	
514114	South Gate	12/29/12	4.4193	4.4635	0.0442	1435	1889	1769	23	25	

# Point Ruston Particulate Network Summary - As and Pb December 26, 2012 thru December 28, 2012

Filter ID	Sampler ID	Runday	Act. Volume	Arsenic	Act. Conc.	Lead	Act. Conc.	Comments
			m <sup>3</sup>	μg/Filter	μg/m³ As	μg/Filter	μg/m³ Pb	COUNTY IN COUNTY OF THE STATE O
514112	South Gate	12/26/12	1774	<2.00	<0.001	<2.00	<0.001	
514113	South Gate	12/27/12	1765	3.88	0.002	3.35	0.001	
514114	South Gate	12/29/12	1769	27.5	0.015	13.1	0.007	

#### Monthly Report 199, December 2012 Operable Unit 02 Asarco Tacoma Smelter Site

#### **PORTABLE**

#### **AIR**

#### **MONITORING**

#### **DATA**

## (LOW VOLUME)

Reference	Date	Description
Spectra	12/18/2012	Spectra Laboratories – Portable air monitoring analysis for 11/27 thru 11/30
Spectra	12/18/2012	Spectra Laboratories – Portable air monitoring analysis for 12/06 thru 12/07
Spectra	12/18/2012	Spectra Laboratories – Portable air monitoring analysis for 12/10 thru 12/11
Spectra	01/11/2013	Spectra Laboratories – Portable air monitoring analysis for 12/27

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RECEIVED
DEC 2 0 2012
BY:

12/18/2012

113012-500

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

μg/m3

Air Monitoring 2A

Date Received: Spectra Project: 2012120034

12/03/2012

SW846 6020A Air Cassette 11/30/2012

Client ID	Spectra #	Analyte	Result	Units	Method	<u>Matrix</u>	Date Sampled
112712-181	1	TSP	< 100	μg/m3	Gravimetric	Air Cassette	11/27/2012
112712-181	1	Arsenic	< 0.004	μg/m3	SW846 6020A	Air Cassette	11/27/2012
112712-181	1	Lead	0.010	μg/m3	SW846 6020A	Air Cassette	11/27/2012
112812-123	2	TSP	< 100	μg/m3	Gravimetric	Air Cassette	11/28/2012
112812-123	2	Arsenic	< 0.004	μg/m3	SW846 6020A	Air Cassette	11/28/2012
112812-123	2	Lead	0.007	μg/m3	SW846 6020A	Air Cassette	11/28/2012
112912-250	3	TSP	< 100	μg/m3	Gravimetric	Air Cassette	11/29/2012
112912-250	3	Arsenic	< 0.004	μg/m3	SW846 6020A	Air Cassette	11/29/2012
112912-250	3	Lead	< 0.004	μg/m3	SW846 6020A	Air Cassette	11/29/2012
113012-500	4	TSP	< 100	μg/m3	Gravimetric	Air Cassette	11/30/2012
113012-500	4	Arsenic	< 0.004	μg/m3	SW846 6020A	Air Cassette	11/30/2012

< 0.004

Lead

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

Point Ruston 5219 N. Shirley St. Project: Air Monitoring

Spectra Project: 2012120034

Suite 100

Final Weights in Grams

Tacoma, WA 98407

				Flow		Particulate
Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Rate, L/min	Time, min.	Conc., ug/m³
1	0.0471	0.0471	0.0000	2.3	442	0
2	0.0498	0.0498	0.0000	2.3	427	0
3	0.0479	0.0479	0.0000	2.3	417	0
4	0.0481	0.0481	0.0000	2.3	400	0

POINT RUSTON
5219 N. Shirley Street, Suite 100, Tacoma, WA 98407
Phone: 253-752-2185
Fax: 253-752-7083

#### CHAIN OF CUSTODY RECORD

CHAIN O	F CUSTOD	Y RECO	RD		7017 \1 cm 36	4				5	5219 N. Phone:	Shirley	Street,	Suite	100, Tacoma, WA 98407 Fax: 253-752-7083
PROJ. NO ALK MC SAMPLER	Si (Signatur	rė)		JEC1	FNAME COSSETTES  THE COSSETTES		OF CONTAINERS	/							REMARKS
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER		0 0 0		<u> </u>		_	_			
11/27/12	13189 2A		X		112712-181		1	X							
11/28/12	Bidg 2A		X		112812-123		•	×							
11/29/12	BING 2A SE SE		×		112912 - 250		1	X							
11/30/12	181d9 21		×		113012-500		f	X							
143/12					SAMPLE LOG INFOSHEETS (4)	)			Atlantan og <sub>ede</sub>	*********	At remaind Area		********		the second of a supplemental contribution and a second comment
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-Relinquisl	ned (Signatu	ire)			Date/Time Rec	ceived by: (\$	Signa	at¢ire) I			Rema	arks			
Relinquisl	ned ( <i>Signatu</i>	ıre)	· · · · · · · · · · · · · · · · · · ·		Date/Time Rec	ceived for La	bor	atory b	y: (Sigi	nature)	D	ate/Tin	ne	Encl	osed: Parameter List with DTLs Cover Letter
L	<del> </del>											Sample epted		nad	
COC Form	7/12				•						I JACC	chiga	10ecii	. Ieu	Signature

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DEC 20 2012

12/18/2012

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring 2A

Date Received:

12/10/2012

Spectra Project: 2012120220

			n . 1.	7 T .	<b>N</b>	34.3	Date
Client ID_	Spectra #	Analyte	Result	Units	Method	Matrix	Sampled
120612-250	1	TSP	362	μg/m3	Gravimetric	Air Cassette	12/06/2012
120612-250	1	Arsenic	< 0.004	μg/m3	SW846 6020A	Air Cassette	12/06/2012
120612-250	1	Lead	< 0.004	μg/m3	SW846 6020A	Air Cassette	12/06/2012
120712-123	2	TSP	121	μg/m3	Gravimetric	Air Cassette	12/07/2012
120712-123	2	Arsenic	< 0.004	μg/m3	SW846 6020A	Air Cassette	12/07/2012
120712-123	2	Lead	< 0.004	μg/m3	SW846 6020A	Air Cassette	12/07/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 1

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Point Ruston

Project: Air Monitoring

5219 N. Shirley St.

Spectra Project: 2012120220

Suite 100

Final Weights in Grams

Tacoma, WA 98407

				Flow		Particulate
Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Rate, L/min	Time, min.	Conc., ug/m³
1	0.0477	0.0480	0.0003	2.3	360	362
2	0.0477	0.0478	0.0001	2.3	360	121

#### CHAIN OF CUSTODY RECORD

2012/12/0 220



[ ]Accepted [ ]Declined\_

Signature

PROJECT NAME (cassettes) PROJ. NO OF CONTAINERS ALR MONITORING SAMPLERS: (Signature) REMARKS GRAB SAMPLE NUMBER Ŏ. STA# TIME 120612-250 X SAMPLE LOG INFO SHEET (2) Received by: (Signature) Lab Date/Time Relinquished (Signature) 12/10/12 15:10 Received by: (Signature) Date/Time Relinquished (Signature) Enclosed: Received for Laboratory by: (Signature) Date/Time Date/Time Relinquished (Signature) Parameter List with DTLs Cover Letter Split Samples:

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RECEIVED
JAN 0.2 2013
BY:

12/21/2012

Point Ruston 5219 N. Shirley St., Suite 100 Tacoma, WA 98407

Project:

Air Monitoring 2A

Date Received:

12/17/2012

Spectra Project: 2012120399

						Date	
Client ID	Spectra #	Analyte	Result	Units	Method	Matrix Sample	<u>:d</u>
121012-500	1	TSP	449	μg/m3	Gravimetric	Air Cassette 12/10/20	12
121012-500	1	Arsenic	0.052	μg/m3	SW846 6020A	Air Cassette 12/10/20	12
121012-500	1	Lead	< 0.004	μg/m3	SW846 6020A	Air Cassette 12/10/20	12
121112-250	2	TSP	< 100	μg/m3	Gravimetric	Air Cassette 12/11/20	12
121112-250	2	Arsenic	< 0.004	μg/m3	SW846 6020A	Air Cassette 12/11/20	12
121112-250	2	Lead	< 0.004	μg/m3	SW846 6020A	Air Cassette 12/11/20	12

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a8/scj

Page 1 of 1

#### CHAIN OF CUSTODY RECORD

2012110399



PROJ. NO	2 A S: (Signatur	4	PRO	JECT	Lyston LCC		ERS			$\overline{}$				
AIKM	DH-1TOU	NG		17	KUSTON LLL		AIN		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		/		/ ,	/ / .
SAMPLE	Scill	lel					OF CONTAINERS		77	' /				REMARKS
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER		NO. O		<u> </u>	<del></del>		_	<del>/                                    </del>	
12/10/n	Bld 2A		عر		121012-500		1	×						
12/1./10	B14:2A		×		121112-250		1	X						
12/17/12					SAMPLE LOG ANFOSHEET	(2) -								
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Relinquis	hed (Signatu	ire)			Date/Time	Received by	(Sign	ature)			Rema	arks		
Relinquis	hed (Signate	ure)			Date/Time	Received for	Labor	atory b	oy: (Sig	nature)		ate/Tir		Enclosed:  Parameter List with DTLs  Cover Letter
L					**							Sample	es: [ ]Decli	ined
5055	. 7/17										1 1400	ehied	LIDEGI	Signature

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01/11/2013

**Point Ruston** 

5219 N. Shirley St.,

Suite 100

Tacoma, WA 98407

Project:

Air Monitoring 2A

Client ID:

122712-500

Sample Matrix: Air Cassette Filter

Date Sampled:

12/27/2012

Date Received: 01/02/2013

Spectra Project: 2013010006

Spectra Number: 1

<u>Analyte</u>	Result	Units	Method
TSP	114	μg/m3	Gravimetric
Arsenic	<0.004	μg/m3	SW846 6020A
Lead	< 0.004	μg/m3	SW846 6020A

SPECTRA LABORATORIES

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Point Ruston

Project: Air Monitoring

5219 N. Shirley St.

Spectra Project: 2013010006

Suite 100

Final Weights in Grams

Tacoma, WA 98407

				How		Particulate
Spectra #	Control Filter Wt., g	Test Filter Wt., g	Wt. Diff., g	Rate, L/min Tim	e, min.	Conc., ug/m <sup>3</sup>
1	0.0477	0.0478	0.0001	2.3	380	114

Signature

COC Form - 7/12

**CHAIN OF CUSTODY RECORD** Fax: 253-752-7083 Phone: 253-752-2185 PROJ. NO PROJECT NAME CONTAINERS Al R MON, toring SAMPLERS: (Signature) **REMARKS** Р COMP STA# SAMPLE NUMBER TIME DATE ġ 122712-500 SAMPLE LOG INES SHOET Received by: (Sillineture) Relinquished (Signature) Shipped via: FedEx, UPS or Other 0100 1 Date/Time Lab 1/2/13 10:28 Spectra Air Bill # Date/Time Received by/(Sighature) Relinquished (Signature) Received for Laboratory by: (Signature) Date/Time Date/Time Relinquished (Signature) Enclosed: ☐ Parameter List with DTLs Cover Letter Split Samples: ]Accepted [ ]Declined\_

#### Monthly Report 199, December 2012 Operable Unit 02 Asarco Tacoma Smelter Site

#### **METHANE**

#### **MONITORING**

#### **DATA**

Reference	Date	Description	
Bldg 2B	12/12/12	Gas Monitoring Data Form / Calibration Worksheet	
Bldg 2B	Dec. 2012	Methane Monitoring – DATA LOG	
	— —		

#### **Gas Monitoring Data Form / Calibration Worksheet**

Project Name:			Build	ling 2B	,				$\alpha$	,	١ .		
Date of Sampling	g:	12	1/12	/12	<u>-</u>	Name	of Sample C	ollector:	PA	tu	113	ER	
Gas Meter Infor	mation	1	-							-			· •••
Manufacturer:	Ind	ustrial Sci	entific	Model: M40 / SP40			-	Seri	al Number:		0806049-98	4	
Factory/Service	Center (	Calibration	Date of G	as Monito	r:	Nove	ember 1, 20	11		Pump Rate o	f Gas Meter:	.5 SCFH (	0.25 LPM)
Calibration Canis	ster Info	rmation											
Canister I.D.	Lot: 4	63-2	Cyl:	MA	Calib	ration Gas:	O <sub>2</sub> , LE	L, CO, H	S, N	Ca	nister Exp.:	3/5/1.	3
		71011		Date:	12	1121	1/2		·	_	9:1		
PRE-SAMPLE C	ALIBKA	TION:		- Duter	10/					Γ.			
Sensor Si	N	Senso	r Type	Gas 1	Гуре	Span Gas	Span Reserve	Fa	sed/ iled 	Alarm Low	Alarm High	Alarm TWA	Alarm STEL
80686245	9	Combus	tible-LEL	Meth	nane	50	92	1	1)	Y			
80582335	4	Hydroge	n Sulfide	Hydrogei	n Sulfide	25	46	,	2		¥-		
1803397030	081	Оху	/gen	Оху	gen	. 19	37/304		P				
SAMPLING RE	SAMPLING RECORD:												
		· · · · · · · ·		_	20.00	2			<i>i_</i>				
Temperature:			Barometric	Pressure:	29/8	/-Ground	Conditions:	w.c	1			<del></del>	<del>.</del>
Precipitation:	0-0	<u> </u>				Tidal	Conditions:	· · · · · · · · · · · · · · · · · · ·					<u>-</u>
Wind Speed:	5	Direction	<u>SW</u>	Other	Relevant (	Conditions:		ver	cast				
Location Well ID#	Pu	le Tube Irge (7)	Start Time	Stop Time	Initial % LEL	Stabilized % LEL	% CH <sub>4</sub> By Volume	% O <sub>2</sub>	H <sub>2</sub> S (ppm)		No	tes	
28W001	7		9:29	9:39	0	0	0	20.9	0				
280002			9:41	9152	0	0	0	21,1	0				
2BW003			9:54	10:04	0	0	0	20.6	0				
2BW004	1	_/_	10:07	10:18	0	0	0	203	0		· · · · ·		·····
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Certification: To the best of correct.	my kno	wledge, 1	the inforn	nation rep	oorted an	d stateme	nts made (	on this d	ata subn	nittal and a	ittachmen	ts are true	and

#### METHANE MONITORING - DATA LOG

#### Point Ruston, LLC

#### **Building 2B**

· · · ·	Well	Date	Temperature	Ну	drogen Sulfide		Oxygen	Combustible LEL (Methane)
Period	Location	Time	c <sup>°</sup>	Reading	TWA	STEL	Reading	Reading
12	Calibrate	12/12/2012 9:14	21	0	O	0	20.9	0
13	Calibrate	12/12/2012 9:16	21	0	0	0	20.9	0
13	Calibrate	12/12/2012 9:17	21	25	0.05208333	1.666667	18.6	5
14	2BW001	12/12/2012 9:30	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:31	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:32	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:33	19	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:34	18	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:35	18	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:36	17	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:37	17	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:38	16	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:39	16	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:40	15	0	0.05208333	0	20.9	0
14	2BW001	12/12/2012 9:41	15	0	0.05208333	0	20.9	0
15	2BW002	12/12/2012 9:43	13	0	0.05208333	0	21.2	0
15	2BW002	12/12/2012 9:44	13	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:45	13	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:46	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:47	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:48	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:49	12	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:50	11	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:51	11	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:52	11	0	0.05208333	0	21.1	0
15	2BW002	12/12/2012 9:53	11	0	0.05208333	0	21.1	0
16	2BW003	12/12/2012 9:56	9	0	0.05208333	0	21.2	0
16	2BW003	12/12/2012 9:57	9	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 9:58	10	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 9:59	10	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 10:00	9	0	0.05208333	0	20.7	0
16	2BW003	12/12/2012 10:01	9	0	0.05208333	0	20.7	0
16	2BW003	12/12/2012 10:02	9	0	0.05208333	0	20.7	0
16	2BW003	12/12/2012 10:03	9	0	0.05208333	0	20.9	0
16	2BW003	12/12/2012 10:04	9	0	0.05208333	0	20.9	0
17	2BW004	12/12/2012 10:08	8	0	0.05208333	0	21.2	0
17	2BW004	12/12/2012 10:09	8	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:10	9	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:11	9	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:12	9	0	0.05208333	0	20.6	0
17	2BW004	12/12/2012 10:13	9	0	0.05208333	0	20.5	0
17	2BW004	12/12/2012 10:14	9	0	0.05208333	0	20.5	0
17	2BW004	12/12/2012 10:15	9	0	0.05208333	0	20.4	0
18	2BW004	12/12/2012 10:17	9	0	0.05208333	0	20.7	0
18	2BW004	12/12/2012 10:18	9	0	0.05208333	0	20.6	0
18	2BW004	12/12/2012 10:19		0	0.05208333	0	20.4	0
18	2BW004	12/12/2012 10:20		0	0.05208333	0	20.4	0

#### Monthly Report 199, December 2012 Operable Unit 02 Asarco Tacoma Smelter Site

#### **MISCELLANEOUS**

#### **TEST**

#### **SAMPLING**

#### **DATA**

### (SOIL – DEBRIS – WATER – ETC.)

Reference	Sample Date	Description
A	12/03/12	Spectra Analysis Report 2012120033 for imported gravel cap materials (Barge #53)
В	12/04/12	Spectra Analysis Report 2012120090 for imported gravel cap materials (Barge #54)
С	12/06/12	Spectra Analysis Report 2012120157 for imported gravel cap materials (Trucked In)
D	12/19/12	Spectra Analysis Report 2012120464 for imported gravel cap materials (Trucked In)

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12/20/2012

**Point Ruston** 

5219 N. Shirley St.,

Suite 100

Tacoma, WA 98407

Project:

Water Walk

Client ID:

CPDP-SAM-58-A1

Sample Matrix: Solid

Date Sampled: 12/03/2012

Date Received: 12/03/2012

Spectra Project: 2012120033

Spectra Number: 1

Analyte	Result	Units	Method
Diesel	<25.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	< 0.01	mg/Kg	SW846 8082A

Surrogate	Recovery	Method
p-Terphenyl	82	NWTPH-D
Decachlorobiphenyl	101	SW846 8082A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/jjb



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CHAIN OF CUSTODY RECORD



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Relinquis	shed (Signate	ure)			Date/Time	Received b	y: ( <i>Sig</i>	hature)			Rem	narks		
Relinquis	shed ( <i>Signati</i>	ure)		·····	Date/Time	Received for	or Labo	ratory	by: (Się	gnature,		Date/Ti		Enclosed:  Parameter List with DTLs  Cover Letter
COC Form	7/4-	<del></del>		<del>.</del>					-			Sampl cepted	les: []Dec	clinedSignature

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12/20/2012

**Point Ruston** 

5219 N. Shirley St.,

Suite 100

Tacoma, WA 98407

Project:

Water Walk

Client ID:

CPDP-SAM-59-A1

Sample Matrix: Solid

Date Sampled:

12/04/2012

Date Received: 12/04/2012

Spectra Project: 2012120090

Spectra Number: 1

Analyte	Result	Units	Method
Diesel	<25.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
РСВ	< 0.01	mg/Kg	SW846 8082A

Surrogate	Recovery	Method
p-Terphenyl	64	NWTPH-D
Decachlorobiphenyl	98	SW846 8082A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/jjb

POINT RUSTON

5219 N. Shirley Street, Suite 100, Tacoma, WA 98407

Phone: 253-752-2185

Fax: 253-752-7083

Parameter List with DTLs

Signature

Cover Letter

Split Samples: [ ]Accepted [ ]Declined\_

**CHAIN OF CUSTODY RECORD** Phone: 253-752-2185 PROJ. NO PROJECT NAME CONTAINERS REMARKS NO. OF COMP GRAB SAMPLE NUMBER TIME DATE STA# 2PDP-SAM-59-A1 9:30 12/4/12 Relinquished (Signature) Date/Time Received by: (Signeture) Shipped via: FedEx, UPS or Other Dvo P Spectra Air Bill # Date/Time Remarks Relinquished (Signature) Received by/ (Signature) Relinquished (Signature) Date/Time Received for Laboratory by: (Signature) Date/Time Enclosed:

COC Form - 7/12

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12/20/2012

**Point Ruston** 

5219 N. Shirley St.,

Suite 100

Tacoma, WA 98407

Project:

Water Walk

Client ID:

WWGR-SAM-60-A1

Sample Matrix: Soil

Date Sampled: 12/06/2012

Date Received: 12/06/2012

Spectra Project: 2012120157

Spectra Number: 1

<u>Analyte</u>	Result	Units	Method
Diesel	<25.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	< 0.01	mg/Kg	SW846 8082A

Surrogate	Recovery	Method
p-Terphenyl	58	NWTPH-D
Decachlorobiphenyl	97	SW846 8082A

**SPECTRA LABORATORIES** 

Steve Hibbs, Laboratory Manager a6/jjb



**CHAIN OF CUSTODY RECORD** 

2012120157



PROJ. NO	)		PRC		NAME								$\overline{}$	/		
WATE	RS: (Signatu	LK		P	+ Pu	15-10.	n LLC		OF CONTAINERS			R	100	\\		
SAMPLER	RS: (Signatul	re) /		7					Ę	,		13 3		/ ,	/ ,	/ /
7	Sat h	M	4~				·		Š	/			3 37			REMARKS
DATE	STA#	TIME	COMP	GRAB			AMPLE NUMBER		NO. O		18 18 18 18 18 18 18 18 18 18 18 18 18 1	2, 0 8, 5,	**	$\angle$		
12/6/12	walk	10:30	X	1.0	WW	GR-S	SAM-60-	AI		X	X	X				
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2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

01/04/2013

**Point Ruston** 5219 N. Shirley St.,

Suite 100

Tacoma, WA 98407

Project:

Phase 1

Client ID:

MILES-SAM-05-A1

Sample Matrix: Solid

Date Sampled:

12/19/2012

Date Received: 12/19/2012

Spectra Project: 2012120464

Spectra Number: 1

Analyte	Result	Units	Method
Diesel	<10.0	mg/Kg	NWTPH-D
Oil	<100	mg/Kg	NWTPH-D
Total Arsenic	< 5	mg/Kg	SW846 6010B
Total Lead	< 4	mg/Kg	SW846 6010B
PCB	< 0.01	mg/Kg	SW846 8082A

Surrogate	Recovery	Method			
Decachlorobiphenyl	96	SW846 8082A			
p-Terphenyl	90	NWTPH-D			

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager a6/jjb



**CHAIN OF CUSTODY RECORD** 

2012120464



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#### Monthly Report 199, December 2012 Operable Unit 02 Asarco Tacoma Smelter Site

## MISCELLANEOUS

#### **INFORMATION**

Reference	Date	Description			
Memo	12/27/12	Seismic Event			
	-				

#### **MEMORANDUM**

December 27, 2012

SUBJECT: RECENT AREA EARTHQUAKES (SEISMIC EVENTS)

The OCF-OMMP addresses response to earthquake events under section 2:

#### 2.1.7 Earthquake Damage

"Should a significant seismic event occur in close proximity to the OCF, a postearthquake inspection will be completed to assess potential damage to the OCF embankment and cover system. A two-tier inspection program will be used to allow for a rapid assessment of earthquake damage. The first-tier will consist of a preliminary inspection that will be followed up by a more detailed assessment and evaluation (secondtier). First-tier inspection activities will be initiated within 48 hours of the seismic event. The need and schedule for second-tier activities will be identified based on the results from the First-Tier inspection.

Table 2-4 identifies the requirements for potential earthquake inspection at the OCF."\*\*

On December 26, 2012 at about 10:36 PM a 4.0 magnitude earthquake was reported approximately 100 miles north-northwest (NNW) of the Onsite Containment Facility (OCF), near Friday Harbor, WA. No known reports of tremors were felt in the South Puget Sound area. This event was considered to be a *non*-significant seismic event and a post-earthquake inspection of the OCF was not conducted.

Sincerely,

Tim Rusher

Construction Oversight/Health & Safety Officer

TABLE 2-4. POST-EARTHQUAKE DAMAGE INSPECTION REQUIREMENTS

Item	Inspection	First-Tier Inspection	Second-Tier Inspection
OCF Cap and Embankment	Visual damage	Inspect OCF cap for visual damage, gross displacements, cracked or damaged concrete or sidewalks, cracked embankment fill, sand boils from foundation outboard of embankment, damaged irrigation system and other visual damage.	Possible subsurface investigation of damaged areas and assessment of postearthquake embankment stability.
Benchmarks	Horizontal and vertical displacement	Survey OCF benchmarks and tie with site wide controls.	Evaluate monument displacement. Assess need for and conduct ongoing monitoring.
LCRS and LDCRS	Operation and leachate volumes	Inspect pumps, piping, electrical, leachate tank, vault, and instrumentation and phone dialer/alarm system.	Evaluate post-earthquake LDCRS flow rate and compare with rate for previous reporting period.
Cap underdrain systems	System integrity and function.	Complete visual inspection of manholes and drainpipe inverts, and drain system outfall.	Perform visual inspection of drain system operation during storm event following earthquake. Conduct subsurface investigation to evaluate integrity of drainpipe in areas of apparent damage.

The United States Geological Society (USGS) defines a "Significant" earthquake as, "[E]arthquakes of magnitude 6.5 or greater or ones that caused fatalities, injuries or substantial damage".

USGS historical listings of "significant" global earthquakes between 1977 and 2010 do not record any earthquakes below 3.0 magnitude. Earthquake magnitude, local shaking, damage reports and proximity should be considered when determining the level of inspection needed outlined in the OCF-OMMP.

<sup>\*\*</sup>Comments regarding "significant seismic event"